APPENDIX 1 CURRENT INDUSTRIAL USERS

SIGNIFICANT INDUSTRIAL USERS 2013 CATEGORICAL INDUSTRIES (10)

Carpenter Technology Corporation - Iron and Steel Mailing Address:

 101 West Bern Street
 P O Box 14662

 Reading PA 19601
 Reading PA 19612-4662

Crescent Brass Manufacturing-Metal Molding & Casting Mailing Address:

- Zero Discharge Same

701 Park Avenue

Reading PA 19611

Reading PA 19611

Hofmann Industries - Metal Finishing Mailing Address:

3145 Shillington Road Same Sinking Spring PA 19608

Reading Plating and Polishing Works - Electroplating

Mailing Address:
1839 Cotton Street

Reading PA 19606 Reading PA 19606

Reading Truck Body - Metal Finishing Mailing Address:

201 Hanover Blvd. Same

Sealed Air Corporation - Pulp and Paper Mailing Address:

450 Riverfront Drive Same Reading PA 19602

Summit Steel and Manufacturing - Metal Finishing Mailing Address: 1005 Patriot Parkway P O Box 14295

Reading PA 19605 Reading PA 19612

Termaco USA - Metal Finishing Mailing Address:

7171 Tuckerton Road Same Reading PA 19605

United Corrstack - Pulp and Paper Mailing Address:

720 Laurel Street Same Reading PA 19602

Yuasa Inc - Battery Manufacturing Mailing Address:

2901 Montrose Ave
Laureldale PA 19605

SIGNIFICANT INDUSTRIAL USERS 2013 NON-CATEGORICAL INDUSTRIES (26)

Akzo Nobel Coatings 159 Columbia Avenue Reading PA 19601 Mailing Address:

Same

Aramark Uniform Services

424 Blair Avenue

Reading PA 19601-1910

Mailing Address:

Same

Berks Packing Company 307-323 Bingaman Street

Reading PA 19602

Mailing Address: P O Box 5919

Reading PA 19610-5919

Car Wash Partners dba Mister Car Wash

1 Cloister Court

Sinking Spring PA 19608

Mailing Address:

Same

Clover Farms Dairy 3300 Pottsville Pike

Reading PA 19605

Mailing Address: P O Box 14627

Reading PA 19612-4627

Crossroads Beverage Group 1055 Crossroads Boulevard

Reading, PA 19605

Mailing Address:

Same

Cryovac, Inc.

Food Packaging Division
177 Tuckerton Road

Reading PA 19605-1135

Mailing Address:

Same

Dairy Farmers of America 100 McKinley Avenue

Reading PA 19605

Mailing Address:

Same

Evergreen Community Power

800 South Street Reading PA 19602

South Street

Mailing Address:

Same

Exide Technologies Spring Valley Road & Nolan Street Laureldale PA 19605

IFS Industries Inc. 400 Orrton Avenue Reading PA 19611

Interstate Container LLC. 100 Grace Street Reading PA 19611

Lentz Milling 2045 N 11th Street Reading PA 19604

National/Yorgey's Cleaners 1700 Fairview Street Reading PA 19606

Orograin Bakeries 640 Park Avenue Reading PA 19611

Packaging Corporation of America 173 Tuckerton Road Reading PA 19605

Prizer Painter Stove Works 600 Arlington Street Reading PA 19611

Quadrant EPP USA, Inc. 2120 Fairmont Avenue Reading PA 19605

> Quaker Maid Meats 520 & 521 Carroll Street 650 Morgantown Road Reading PA 19611

Mailing Address: P O Box 14294 Reading PA 19612-4294

Mailing Address: P O Box 1053 Reading PA 19603

Mailing Address: Same

Mailing Address: P O Box 13159 Reading PA 19612

Mailing Address: Same

Mailing Address: Same

Mailing Address: Same

Mailing Address: P O Box 1053 Reading PA 19603

Mailing Address: P O Box 14235 Reading PA 19612-4235

Mailing Address: P O Box 350 Shillington PA 19607-0350 Reading Eagle 345 Penn Street Reading PA 19601

Reitech Corporation 3146 Marion Street Laureldale PA 19605

Savor Street Foods 51 Spring Valley Road Reading PA 19605

St Joseph Medical Center-Downtown 145 N 6th Street Reading PA 19601

Sun Rich Fresh Foods 425 Gateway Drive Reading PA 19601

Sweet Street Desserts 722 Hiester's Lane Reading PA 19605

Tom Sturgis Pretzels 2267 Lancaster Pike Reading PA 19607 Mailing Address: P O Box 582 Reading PA 19603

Mailing Address: Same

Mailing Address: P O Box 15053 Reading PA 19612-5053

Mailing Address: P O Box 316 Reading PA 19603

Mailing Address: Same

Mailing Address: P O Box 15127 Reading PA 19612-5127

Mailing Address: Same

2013 NON-SIGNIFICANT INDUSTRIES (12)

Air Liquide 2500 N 11th Street

Reading PA 19605

Akzo Nobel Coatings Inc-R&D Center

3 Commerce Drive Reading PA 19607

Diesel Service, Inc. 150 Lehigh Street Reading PA 19601

NGK Metals Corporation 150 Tuckerton Road Temple PA 19560

Paragon Optical 644-658 S 7th Street Reading PA 19602

Pennsylvania Truck Centers 4226 Pottsville Pike Reading PA 19605

Penske Truck Leasing 255 Penske Plaza Reading PA 19602

Remcon Plastics 208 Chestnut Street Reading PA 19602

Ultra Wash of Philadelphia 1619 N 9th Street Reading PA 19604

Unique Pretzel Bakery 215 E. Bellevue Avenue Reading PA 19605

Van Bennett Food Company 101 N Carroll Street Reading PA 19611 Mailing Address: P O Box 13577

Reading PA 19612-3577

Mailing Address:

Same

Mailing Address: P O Box 14325

Reading PA 19612-4325

Mailing Address:

917 US Highway 11 South Sweetwater TN 37874

Mailing Address: 658 S 7th Street Reading PA 19602

Mailing Address: P O Box 13337

Reading PA 19612-3337

Mailing Address: P O Box 7635

Reading PA 19603-7635

Mailing Address:

Same

Mailing Address: P O Box 1130

North Cape May NJ 08204

Mailing Address:

Same

Mailing Address:

Same

WORLD electronics 3000 Kutztown Road Reading PA 19605 Mailing Address: Same

APPENDIX 2 COMPLIANCE MONITORING PROGRAM

2013 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

	Control	Document		Inspection	on and Sai	mpling F	requency	
Industry Name	Control	Document	Inspec		Samplin		Self-Mo	nitoring
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Akzo Nobel Coatings	April 1, 2012	March 31, 2015	1	1	12	12	12	12
Aramark Uniform Services	July 1, 2013	June 30, 2016	1	1	4	4	12	12
Berks Packing Company	January 1, 2013	December 31, 2015	1	1	4	4	12	12
Carpenter Technology	October 1, 2012	September 30, 2015	1	1	4	4	4	4
Cloister Car Wash and Lube	July 1, 2012	June 30, 2015	1	1	5	4	4	4
Clover Farms Dairy	October 1, 2012	September 30, 2015	1	1	12	12	12	12
Crescent Brass Manufacturing	October 1, 2011	September 30, 2014	1	1	1	1	2	2
Crossroads Beverage	April 1, 2012	March 31, 2015	1	1	2	2	2	2
Cryovac Food Packaging Division	April 1, 2013	March 31, 2016	1	1	2	2	_ 2	2
Dairy Farmers of America	April 1, 2011	March 31, 2014	1	1	12	12	12	12
Evergreen Community Power	October 1, 2011	September 30, 2014	1	1	2	2	2	2
Exide Technologies	January 1, 2012	December 31, 2015	1	1	4	4	4	4
Hofmann Industries	April 1, 2009	March 31, 2012	1	1	2	2	4	4
IFS Industries (International Foundry Supply)	October 1, 2011	September 30, 2014	1	1	12	12	12	12
Interstate Container	October 1, 2013	September 30, 2016	1	1	5	4	4	4
Lentz Milling	July 1, 2013	June 30, 2016	1	1	2	2	4	4
National/Yorgey's Cleaners	January 1, 2012	December 31, 2014	1	1	4	4	2	2
Orograin Bakeries	July 1, 2011	June 30, 2014	1	1	4	4	2	2
Packaging Corpporation of America	May 1, 2011	March 31, 2014	1	1	5	4	4	4
Prizer Painter Stove Works	July 1, 2011	June 30, 2014	1	1	5	4	4	4
Quadrant EEP USA	April 1, 2012	March 31, 2015	1	1	1	1	2	2
Quaker Maid Meats	October 1, 2012	September 30, 2015	1	1	4	4	4	4
Reading Eagle Company	January 1, 2012	December 31, 2014	1	1	2	2	2	2
Reading Plating & Polishing Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Reading Truck Body	October 1, 2013	September 30, 2016		1	4	4	12	12
Reitech Corporation	October 1, 2013	September 30, 2016	1	1	2	2	2	2
Savor Street Foods	January 1, 2012	December 31, 2014	1	1	4	4	4	4
Sealed Air Corporation	January 1, 2013	December 31, 2015	1	1	12	12	90	52
St Joseph Medical Center Downtown	April 1, 2013	March 31, 2016	1	1	6	4	12	12
Summit Steel and Manufacturing	October 1, 2012	September 30, 2015	1	1	1	1	2	2
Sun Rich Fresh Foods	January 1, 2014	December 31, 2016	1	1	12	12	12	12

2013 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

	Control	Document		Inspection and Sampling Frequency					
Industry Name	Control	Document	Inspe	ctions	Samplin	g Visits	Self-Monitoring Performed Require 4		
·	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required	
Sweet Street Desserts	April 1, 2012	March 31, 2015	1	1	4	4	4	4	
Termaco USA	July 1, 2011	June 30, 2014	1	1	2	2	4	4	
Tom Sturgis Pretzels	January 1, 2012	December 31, 2014	1	1	4	4	4	4	
United Corrstack	October 1, 2013	September 30, 2016	1	1	12	12	12	12	
Yuasa Battery	April 1, 2009	March 31, 2012	1	1	4	4	4	4	
		Total	36	36	181	175	290	252	

NOTES:

Carpenter Technology: A new permit issued on November 26, 2013 added a fourth outfall. This new outfall, labeled 004, will monitor the new jet cutting machine installed by Carpenter earlier in the year. The outfall will be sampled quarterly at this time.

Clover Farms: The company is building onto its pretreatment system. The new permit, issued July 19, 2013, noted the addition being built and requiring notification when it is put in use. An amended permit reflecting the changes will be issued at that time.

Exide Technologies: The permit issued December 13, 2013 combined the permits for Plant One, Plant Two, and Recycling into one permit. Previously, the facilities was separated into three distinct entities which required three separate permits. The company separated the three entities by having different personnel at all three buildings responsible for pretreatment. Over the last few years, the company has ended manufacturing at the facility and only a few personnel remain working.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

2013 COMPLIANCE MONITORING PROGRAM

Non-Significant Industrial Users

	Control	Document	Inspection and Sampling Frequency					
Industry Name			Inspe	ctions	Samplin	g Visits	Self-Mo	nitoring
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Air Liquide	July 1, 2012	June 30, 2015	0	0	1	1	2	2
Akzo Nobel Powder Coatings R&D Center	July 1, 2012	June 30, 2015	0	0	1	1	1	1
Diesel Service	October 1, 2011	September 30, 2016	0	0	0	0	1	1
NGK Metals Corporation	April 1, 2012	March 31, 2015	0	0	4	4	2	2
Paragon Optical	January 1, 2010	December 31, 2012	0	0	2	4	0	2
Pennsylvania Truck Centers	October 1, 2011	September 30, 2014	0	0	2	2	2	2
Penske Truck Leasing	January 1, 2012	December 31, 2014	0	0	4	4	4	4
Remcon Plastics	April 1, 2011	March 31, 2014	0	0	1	1	1	1
Ultra Wash of Philadelphia	April 1, 2013	March 31, 2016	0	0	0	0	4	4
Unique Pretzel Bakery	October 1, 2012	September 30, 2015	0	0	2	2	2	2
Van Bennett Food Company	October 1, 2012	September 30, 2015	0	0	3	2	4	4
WORLD electronics	January 1, 2014	December 31, 2016	0	0	2	2	2	2
		Total	0	0	22	23	25	27

NOTES:

Paragon Optical: The company's permit expired December 31, 2012. The City received a permit application in December 2012 that was not complete. It also did not include any of the testing required for a permit renewal. Since receipt of the application, phone calls went unreturned. All mail was returned as undeliverable. The company filed for bankruptcy protection in May 2013. The permit has not been, nor is it expected to be, renewed.

Unique Pretzels: The company added a holding tank inside the building for its wastewater. Wastewater is discharged into the tank where the pH is adjusted to the permitted range if necessary. Wastewater samples are to be taken directly out of this tank. The new permit, issued April 30, 2013, reflects this change.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

APPENDIX 3 INCREASED INDUSTRIAL SAMPLING

INDUSTRY (SIU)	Additional City Sampling Performed	City Parameters Sampling Tested		Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Akzo Nobel Coatings						
Aramark Uniform Services						
Berks Packing Company						
Carpenter Technology	1	chromium	1	1	chromium	1
Cloister Car Wash and Lube	3	copper	3			
	3	zinc	3			
Clover Farms Dairy				6	oil and grease (HEM)	6
				1	pН	1
Crescent Brass Manufacturing	3	copper	3	2	copper	2
Crossroads Beverage Group						
Cryovac Food Packaging Division						
Dairy Farmers of America						
Evergreen Community Power						
Exide Technologies	1					
Hofmann Industries	4	zinc	4	8	zinc	8
IFS Industries				2	oil and grease	2
Interstate Container	11	color	11	2	color	2
	3	zinc	3	1	zinc	1
Lentz Milling			1			
National/Yorgey's Cleaners	4	oil and grease (HEM)	4			
	4	oil and grease (SGT-HEM)	4			
Orograin Bakeries outfall 001						
Orograin Bakeries outfall 002	4	lead	4			
	9	oil and grease (HEM)	9	4	oil and grease (HEM)	4
	9	pН	9			
	4	zinc	4			
Packaging Corp. of America						
Prizer Painter Stove Works						
Quadrant EPP USA						
Quaker Maid Meats outfall 003						
outfall 004						
Reading Eagle Company						
Reading Plating & Polishing Works	4	oil and grease (HEM)	4	4	oil and grease (HEM)	4
	4	oil and grease (SGT-HEM)	4	3	oil and grease (SGT-HEM)	3

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Reading Truck Body						
Reitech Corporation						
Savor Street Foods Inc						
Sealed Air Corporation						
St Joseph Downtown-outfall 005						
St Joseph Downtown-outfall 006	1	copper	1			
	3	mercury	3			
	1	zinc	1			
Summit Steel and Manufacturing						
Sun Rich Fresh Foods						
Sweet Street Desserts				1	pН	. 1
Termaco USA						
Tom Sturgis Pretzels	3	oil and grease (HEM)	3	1	pН	1
United Corrstack				1	mercury	1
Yuasa Battery						

NOTES:

Aramark Uniform Services A new permit was issued effective July 1. No changes were made.

Berks Packing Company

A permit, effective January 1, was written. The permit required the company to continue to take monthly oil and grease samples.

The permit also continued the requirement that, in case of an oil and grease violation, two resamples must be taken within 30 days

of the original violation.

Carpenter Technology Corporation A new permit, effective December 1, was issued. The new permit calculated new categorical limits for outfall 001. No changes were

made regarding sampling or limits on outfalls 002 or 003. A new outfall was added, labelled outfall 004. This new outfall will sample

the discharge from a new jet water cutter installed recently by Carpenter.

Car Wash Partners dba Mr Car Wasl A new permit was issued effective July 1. No changes were made to sampling requirements. The company sale was finalized during

the year. Subsequently, the name was changed from Cloister Car Wash to Car Wash Partners dba Mister Car Wash.

Clover Farms Dairy

A new permit was issued effective October 1. It was noted that the company is building additions to its pretreatment facilities in order to

better control pH and oil and grease. The company is required to notify the City when construction is completed. An amended permit

which will describe the new treatment process and sampling point will be issued at that time.

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests				
Cryovac Food Packaging Division	A new permit v	as issued effective April 1. No	changes were	made.						
Exide Corporation	entities had diffissued for each at this time. The existing permit or another compared to the	A new permit was issued. Previously, this industry had been three separate entities under one corporate umbrells. Because the three entities had different personnel groups in charge of pretreatment and were semi autonomous in that respect, a different permit was ssued for each entity. The company has been downsizing in recent years and two of the three parts of this company are not working at this time. Therefore, all three parts were combined into one overarching permit effective January 1, 2012 which was the date their existing permits expired. No changes were made to either sampling or reporting requirements. The possibility exists that the company, or another company, would some day reopen all or part of the business. The permit stipulates that the City shall be notified 90 days in advance of the reopening, should that ever occur.								
Interstate Container	A new permi	A new permit effective October 1 was issued. No changes were made.								
Lentz Milling	A	nge to have all other parameter	•		for pH and oil and grease remains uncin April as opposed to every other year	_				
Quadrant EPP USA Inc	A new permit,	effective April 1, 2012 was issu	ed. No change	es were made.						
Quaker Maid Meats, Inc	A permit was w	ritten, effective October 1. No	changes were	made to this permit.						
Reading Truck Body	A new permit was issued which went into effect October 1. Although the company is a categorical industry, no dilution occurs at or near the outfall so the combined wastestream formula is not used to determine new daily or monthly categorical limits.									
Reitech Corporation	A new permit v	vas issued which went into effe	ct October 1. N	No changes were made	3.					
St. Joseph Medical Center Downtow		vas issued effective April 1. The ad requested changing this req			fall 005 monthly for oil and grease was	s not changed.				

Sun Rich Foods A new permit was issued with an effective date of January 1, 2014. No changes were made.

company. No other changes were made.

Sealed Air Corporation

A new permit was issued effective January 1. The limits on penta and trichlorophenol were changed based on data supplied by the

	Additional		Number	Additional		Number
INDUCTOV (CHD	City	Parameters	of Extra	Self Monitoring	Parameters	of Extra
INDUSTRY (SIU)	Sampling	Tested	Tests	Sampling	Tested	Tests
	Performed			Performed		

Sweet Street Desserts

A new permit, effective April 1, was issued. No changes were made to the sampling requirements. It was noted that the company no longe dewaters sludge on site.

United Corrstack

A permit, effective October 1, was issued. New categorical limits on tricholorphenol and pentachlorophenol were issued based upon information supplied by United Corrstack in their self monitoring reports.

INDUSTRY (non-SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Air Liquide						
Akzo Nobel Coatings R&D Lab	3	copper	3			
Diesel Service						
NGK Metals Corporation						
Paragon Optical						
Pennsylvania Truck Centers						
Penske Truck Leasing						
Remcon Plastics	3	copper	3			
	3	zinc	3			
Ultra Wash of Philadelphia						
Unique Pretzel Bakery						
Van Bennett Food Company	2	oil and grease (HEM)	2			
	2	рН	2			
WORLD electronics						

NOTES:

Akzo Nobel R&D Center

A new permit was issued effective July 1 was issued. No changes were made to sampling requirements. The company name was changed from Rohm & Haas to Akzo Nobel due to the company's sale being finalized during 2013.

Ultra Wash Philadelphia A new permit, effective April 1, was issued for this industry. No changes were made.

Unique Pretzel Bakery

A new permit was issued, effective October 1, for this industry. The wastewater sampling point was changed to reflect work the company

had done to take samples out of a tank inside the building. This work was done to improve the company's ability to control the pH of its discharge. The permit was written so that the company was required to do biannual wastewater testing in the first

half of 2014 and 2015.

WORLD electronics A new permit was issued. The effective date of the permit was January 1, 2014. No changes were made.

APPENDIX 4

FACILITIES IN SNC FOR 2013 THAT WERE ALSO IN SNC FOR 2012

Significant Industrial Users in SNC for 2013 that were also in SNC for 2012

Facility	Reason for Significant I 2012	Non-Compliance 2013	Status at the end of 2013
Hofmann Industries	TRC zinc	TRC zinc	Compliance

TRC & chronic average monthly zinc

Interstate Container LLC TRC Color & Failure to report TRC & chronic color Compliance

Non Significant Industrial Users in SNC for 2013 that were also in SNC for 2012

Facility	Reason for Significant Non-Compliant 2012	<u>2013</u>	Status at the end of 2013
Paragon Optical Company	Failure to report	TRC copper, lead, zinc Failure to report	SNC
Penske Truck Leasing	TRC zinc	TRC zinc	Compliance

APPENDIX 5 NEWSPAPER LISTING OF SIGNIFICANT VIOLATORS

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2013 to December 31, 2013 along with their current compliance status is as follows:

Carpenter Technology Corporation

101 West Bern Street

Reading, PA 19601

City of Reading Industrial Waste Permit No. 76D

Nature of violation:

3rd Quarter -TRC and chronic violation of the chromium limit listed in its permit 3rd Quarter - Failure to report violation

3rd Quarter - Failure to resample

Current compliance status:

During normal self monitoring sampling in August, the company had a chromium test which was in violation of its permit limit. The company reported the violation prior to filing its third quarter self monitoring report, but several weeks after the sample had been taken and the results of the test available to company personnel. The company also failed to resample as written in its permit. Through extra sampling by both the company and the City, the company returned to compliance.

Crescent Brass Manufacturing Company

701 Park Avenue

Reading, PA 19611

City of Reading Industrial Waste Permit No. 73G

Nature of violation:

2nd Quarter - TRC and chronic violation of the copper limit in its permit and failure to report violation 3rd Quarter - TRC violation of the copper limit in its permit

Current compliance status:

The company reported a copper violation on a sample taken in May. The violation was reported on the company's second quarter self monitoring report. Another copper sample was taken within the 30 day time period for resampling as is written in the company's permit. This sample was also in violation of the copper permit limits. A third sample was taken, the results of which were within permit limits. No explanation was given for the high copper in any of the samples. The City took extra samples in the third quarter, but the company remained in SNC at that time due to a violation in September. As of the fourth quarter of 2013 the company has returned to compliance.

Hofmann Industries, Inc. 3145 Shillington Road Sinking Spring PA 19608 City of Reading Industrial Waste Permit No. 18G Nature of violation:

1st Quarter - TRC violation of the zinc limit listed in its permit

1st Quarter - TRC and Chronic violation of the maximum monthly average limit for zinc listed in its Permit

Current compliance status:

This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The company reported a leak in a caustic tank was the cause of violations in October and November 2012. However, there was an additional violation in January 2013. Extra sampling was done in March by both the company and the City, which yielded some more violations. Subsequent testing through the year produced no further violations and the company has returned to compliance.

Interstate Container LLC 100 Grace Street Reading, PA 19611 City of Reading Industrial Waste Permit No. 20H Nature of violation:

3rd Quarter - TRC and chronic violation of the color level listed in its permit

Current compliance status:

There were two Self Monitoring test results and 5 City color test results out of fourteen total color samples taken during the third quarter in violation of the company's permit limits. The company indicated that a recirculating valve was removed from their discharge pipe during the time they were getting their filter press repiped. Company personnel state that the bypass was necessary because the discharge is a batch discharge and sediment remains in the filter press screens after the screens have been cleaned between pressings. Water is recirculated back into the treatment tank for the first minute or so of any batch discharge. The valve was replaced. The company had some color violations in the ensuing months but much fewer than prior to the valve being replaced. The company has returned to compliance.

Orograin Manufacturing Bakeries 640 Park Avenue Reading PA 19611 City of Reading Industrial Waste Permit No. 16G Nature of violation:

1st Quarter - TRC violation of the oil and grease limit listed in its permit TRC and chronic violation of the lead level listed in its permit Failure to resample

Failure to report violation

Current compliance status:

returned to compliance.

During a test in January 2013 done by the City, there was a lead violation. The company believes that an outside contractor who had been cleaning and servicing and changing batteries on their tow motors may have caused some lead from the batteries to be on the floor and the lead was washed into a nearby sump pit which discharges to the outfall with the violation by company personnel. Changes were made to the battery changing and floor washing routines to try to prevent this occurrence from happening again. Also, the company had an oil and grease (HEM) violation on a self monitoring sample taken in February. This violation was only reported to the City when the company's first quarter self monitoring report was submitted in April, not within 24 hours of learning of the violation as required in the industrial wastewater permit. Additionally, the company did not take an oil and grease resample as required in their permit. Company and City representative met to explain the violations and try to come up with ways to avoid future violations. The company has not had any other violations and has

Quaker Maid Meats, Inc 511 Carroll Street Reading, PA 19607 City of Reading Industrial Waste Permit No. 77E Nature of violation:

4th Quarter - TRC violation of the oil and grease (HEM) listed in its permit Current compliance status:

During normal self monitoring testing in October, the company had an oil and grease violation. A retest a week later also showed a violation. A second retest taken three weeks later had a result that was below the permit limit. The second high result placed the company in SNC for the fourth quarter. A company representative e mailed that the company had begun to clean its fryers on a more frequent basis and he believed that was the reason for the violations. The company increased the rate at which their oil separators are pumped out and had a good test result subsequent to the increased pumping schedule. Nevertheless, the company remained in SNC as of the end of 2013.

Reading Plating and Polishing Works, Inc.

1839 Cotton Street

Reading, PA 19606

City of Reading Industrial Waste Permit No. 10H

Nature of violation:

3rd Quarter - TRC violation of the oil and grease (SGT-HEM) level listed in its permit Current compliance status:

The company had two oil and grease (SGT-HEM) violations; one in August and the other in September. Neither company nor City personnel have been able to find a reasonable explanation for these violations. Both the company and the City took extra samples. There were no additional violations. The company has returned to compliance.

St. Joseph Medical Center-Downtown 145 North 6th Street Reading, PA 19601 City of Reading Industrial Waste Permit No. 65G Nature of violation:

2nd Quarter - TRC and chronic violations of the mercury level listed in its permit 3rd Quarter - TRC and chronic violations of the mercury level listed in its permit Current compliance status:

A mercury sample was taken in May during normal City testing. This test showed a violation for mercury. Two additional samples were taken in June by the City. Both of these results were also in violation. The company has a device that is supposed to filter out fillings from the dental clinic which is probably the source for mercury at this outfall. The filter was changed and the device cleaned and serviced after these violations. A sample taken in September showed results below the permit limit. As this sample was the only sample taken after June, the company returned to compliance in the fourth quarter of 2013.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2013 to December 31, 2013 along with their current compliance status is as follows:

Paragon Optical Company Inc. 644-658 South 7th Street Reading PA 19602

City of Reading Industrial Waste Permit No. M020C

Nature of violations:

2nd Quarter - TRC violation of copper, lead, and zinc levels listed in its permit

3rd Quarter - TRC violation of copper, lead, and zinc levels listed in its permit

All Quarters-Failure to report

Current compliance status:

The company has not submitted a self monitoring report since the second quarter of 2012. Tests taken by the City in April showed violations of copper, lead, and zinc. No subsequent tests were taken. Phone calls and unannounced site visits were unanswered. All bills and other correspondence sent since the second quarter of 2013 have been returned as undeliverable. Water to the company was shut off by the Reading Area Water Authority in 2013. In May 2013, the company filed for bankruptcy protection.

Van Bennett Food Company, Inc 101 North Carroll Street Reading, PA 19611 City of Reading Industrial Waste Permit No. M030E Nature of violation: 1st Quarter - Failure to resample

Current compliance status:

The company reported a pH and oil and grease (HEM) violation on their 1st quarter self monitoring report. The report was filed in a timely manner, however, the company did not resample either of the parameters as required on their permit. The company began separating high oil and grease waste in containers and having it shipped out rather than washing it down drains. There was an oil and grease violation in June, but the company has returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jeffrey P. Hill, Environmental Program Coordinator, at 610-655-6121.

APPENDIX 6 ENFORCEMENT ACTIONS

2013 ENFORCEMENT ACTIONS

Significant Industrial Users

	T	Enforceme	nt Action		
Industry Name	Compliance	Notice of	Admin	Penalty	Nature of Violation
	Schedule	Violation	Order	Assessed	
Akzo Nobel Coatings	None	2	None	\$200	2 zinc
Aramark Uniform Services	None	1	None	\$100	1 pH
Berks Packing Company	None	None	None		
Carpenter Technology	None	3	None	\$1,600	1 chromium, 1 failure to report violation, 1 failure to resample
Cloister Car Wash and Lube	None	2	None	\$600	1 copper, 1 zinc
Clover Farms Dairy	None	31		\$68,950	9 pH, 17 oil and grease, 4 late reports, 1 failure to report violations
Crescent Brass Manufacturing	None	5	None	\$2,300	3 Cu, 2 failure to report violations
Crossroads Beverage	None	None	None		
Cryovac Food Packaging	None	None	None		
Dairy Farmers of America	None	2	None	\$8,000	2 oil and grease
Evergreen Community Power	None	None	None		
Exide Technologies	None	None	None		
Hofmann Industries	None	7	None	\$700	5 zinc, 2 zinc monthly average
IFS Industries	None	5	None	\$12,050	4 oil and grease, 1 late report
Interstate Container	None	9	None	\$900	8 color, 1 zinc
Lentz Milling	None	1	None	\$250	Late sampling
National/Yorgey's Cleaners	None	4	None	\$400	2 oil and grease (HEM), 2 oil and grease (SGT-HEM)
Orograin Bakeries	None	12	None	\$2,450	4 pH, 1 lead, 1 zinc 1 late report, 3 oil and grease, 1 failure to resample,
					1 failure to report
Packaging Corp. of America	None	None	None		
Prizer Painter Stove Works	None	1	None	\$50	1 late report
Quadrant EEP USA	None	None	None		
Quaker Maid Meats	None	3	None	\$300	1pH, 2 oil and grease (HEM)
Reading Eagle Company	None	None	None		
Reading Plating & Polishing	None	2	None	\$200	2 oil and grease (SGT-HEM)
Reading Truck Body	None	2	None	\$200	1 zinc, 1 pH
Reitech Corporation	None	None	None		
Savor Street Foods	None	2	None	\$150	1 late report, 1 oil and grease (HEM)
Sealed Air Corporation	None	None	None		
St Joseph Downtown	None	3	None	\$300	3 mercury
Summit Steel and Manufacturing	None	None	None		
Sun Rich Fresh Foods	None	None	None		•
Sweet Street Desserts	None	3	None	\$1,200	2 pH, 1 failure to report violation
Termaco USA	None	None	None		

2013 ENFORCEMENT ACTIONS

Significant Industrial Users

		Enforceme	nt Action					
Industry Name	Compliance	Notice of	Admin	Penalty	Nature of Violation			
	Schedule	Violation	Order	Assessed				
Tom Sturgis Pretzels	None	4	None	\$400	3 oil and grease, 1 pH			
United Corrstack	None	2	None	\$200	1 mercury, 1 oil and grease (SGT-HEM)			
Yuasa Battery	None	1	None	\$100	1 lead-monthly average			
TOTAL	0	107		\$101,600				

1	Initial	finac	for	win	lati	ione	OFO	20	follows:	
J	umuai	111103	IOI	VIO.	Late	10113	arc	a_{3}	IOHOWS.	

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000
Failure to maintain pretreatment records/documents on site	\$500

NOTES ON FINES ADMINISTERED:

Clover Farms Dairy: pH violations were fined at \$250. 9 were fined at this rate. Oil and grease was fined at \$3500 in the first quarter. 5 were fined at this rate. Oil and grease fine was raised to \$4000 in the second quarter. 12 were fined at this rate.

2013 ENFORCEMENT ACTIONS

Non-Significant Industrial Users

	Enforcement Action				
Industry Name	Compliance	Notice of	Admin	Penalty	Nature of Violation
	Schedule	Violation	Order	Assessed	
Air Liquide	None	None	None		
Akzo Nobel Coatings Inc-R&D Lab	None	1	None	\$100	1 copper
Diesel Service	None	None	None		
NGK Metals Corporation	None	None	None		
Paragon Optical	None	4	None	\$1,300	1 copper, 1 lead, 1 zinc, 1 failure to report
Pennsylvania Truck Centers	None	None	None		
Penske Truck Leasing	None	None	None		
Remcon Plastics	None	3	None	\$300	1 copper, 2 zinc
Ultra Wash of Philadelphia	None	1	None	\$50	1 late report
Unique Pretzel Bakery	None	None	None		
Van Bennett Food Company	None	8	None	\$1,450	1 pH, 2 oil and grease, 3 late reports, 2 failures to resample
WORLD electronics	None	None	None		
TOTAL	0	17	0	\$3,200	

Initial fines for violations are as follows:

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000

APPENDIX 7 PAYMENT STATUS

City of Reading Industrial Pretreatment Penalty Payment Status

Industrial Waste Register Bill Summary

1/1/2013 to 3/27/2014

License No.	<u>Name</u>	Issue Date	Comments	Billed	<u>Paid</u>	PaidDate
January 2013						
FINES - 54-0	7-00-3622					
337759	AIR LIQUIDE	01/09/2013	3RD Q 2012	\$100.00	-\$100.00	01/24/2013
337760	BACHMAN COMPANY	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/06/2013
364195	BIMBO BAKERIES USA, INC.	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/14/2013
341901	CLOISTER CAR WASH AND LUBE	01/09/2013	2012-3RD Q	\$600.00	-\$600.00	01/31/2013
331117	CLOVER FARMS DAIRY	01/09/2013	2012-3RD Q	\$28,250.00	-\$28,250.00	02/14/2013
337763	CRESCENT BRASS MANUFACTURING	01/23/2013		\$265.05	-\$265.05	01/24/2013
331628	INTERSTATE CONTAINER READING	01/09/2013	2012-3RD Q	\$200.00	-\$200.00	03/28/2013
331094	QUAKER MAID MEATS	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/28/2013
340271	READING TRUCK BODY LLC	01/09/2013	2012-3RD Q	\$50.00	-\$50.00	02/05/2013
337710	YUASA BATTERY INC	01/09/2013	2012-3RD Q	\$1,100.00	-\$1,100.00	01/31/2013
				\$30,865.05	-\$30,865.05	
				,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
February 201	3					
FINES - 54-0						
337763	CRESCENT BRASS MANUFACTURING	02/07/2013		\$265.05	-\$265.05	02/14/2013
				\$265.05	-\$265.05	
April 2013						
FINES - 54-0	7-00-3622					
337763	CRESCENT BRASS MANUFACTURING	04/19/2013		\$265.05	-\$265.05	04/30/2013
337763	CRESCENT BRASS MANUFACTURING	04/19/2013		\$265.05	-\$265.05	04/30/2013
				\$530.10	-\$530.10	
				3330.10	-3550.10	
May 2013						
FINES - 54-0	7-00-3622					
365365	AKZO NOBEL COATINGS	05/30/2013	2013-1ST Q	\$200.00	-\$200.00	07/15/2013
331155	ARAMARK UNIFORM SERVICES	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331155	ARAMARK UNIFORM SERVICES	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/28/2013

337760	BACHMAN COMPANY	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331620	BERKS PACKING	05/01/2013	2012-4TH Q	\$200.00	-\$200.00	05/16/2013
364195	BIMBO BAKERIES USA, INC.	05/30/2013	2013-1ST Q	\$1,950.00	-\$1,950.00	07/12/2013
341901	CLOISTER CAR WASH AND LUBE	05/01/2013	2012-4TH Q	\$500.00	-\$500.00	05/31/2013
331117	CLOVER FARMS DAIRY	05/01/2013	2012-4TH Q	\$15,500.00	-\$15,500.00	05/21/2013
331117	CLOVER FARMS DAIRY	05/30/2013	2013-1ST Q	\$18,700.00	-\$18,700.00	06/25/2013
365363	DAIRY FARMERS OF AMERICA	05/01/2013	2012-4TH Q	\$4,200.00	-\$4,200.00	05/31/2013
338910	HOFMANN INDUSTRIES	05/01/2013	2012-4TH Q	\$300.00	-\$300.00	06/14/2013
338910	HOFMANN INDUSTRIES	05/30/2013	2013-1ST Q	\$700.00	-\$700.00	07/15/2013
331089	IFS INDUSTRIES	05/01/2013	2012-4TH Q	\$3,000.00	-\$3,000.00	05/23/2013
331089	IFS INDUSTRIES	05/30/2013	2013-1ST Q	\$3,000.00	-\$3,000.00	06/19/2013
366313	PACKAGING CORP OF AMERICA	05/01/2013	2012-4TH Q	\$50.00	-\$50.00	05/31/2013
337 7 31	PARAGON OPTICAL	05/01/2013	2012-4TH Q	\$2,000.00	\$0.00	#############
331154	PENSKE TRUCK LEASING	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331621	PRIZER PAINTER STOVE WORKS	05/01/2013	2012-4TH Q	\$150.00	-\$150.00	06/11/2013
331094	QUAKER MAID MEATS	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/28/2013
340271	READING TRUCK BODY LLC	05/30/2013	2013-1ST Q	\$100.00	\$0.00	#############
375937	ULTRA WASH OF PHILADELPHIA, IN	05/30/2013	2013-1ST Q	\$50.00	-\$50.00	06/24/2013
33 7 713	UNITED CORRSTACK	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/20/2013
338340	VAN BENNETT	05/30/2013	2013-1ST Q	\$1,300.00	-\$1,300.00	08/21/2013
				\$52,500.00	-\$50,400.00	
June 2013				\$52,500.00	-\$50,400.00	
June 2013	-07-00-3622			\$52,500.00	-\$50,400.00	
FINES - 54		06/04/2013				06/06/2013
	-07-00-3622 CRESCENT BRASS MANUFACTURING	06/04/2013		\$52,500.00 \$265.05	-\$50,400.00 -\$265.05	06/06/2013
FINES - 54		06/04/2013				06/06/2013
FINES - 54		06/04/2013		\$265.05	-\$265.05	06/06/2013
FINES - 54		06/04/2013		\$265.05	-\$265.05	06/06/2013
FINES - 54 337763 July 2013 FINES - 54	CRESCENT BRASS MANUFACTURING			\$265.05 \$265.05	-\$265.05 - \$265.05	
FINES - 54 337763 July 2013	CRESCENT BRASS MANUFACTURING	06/04/2013 07/15/2013		\$265.05	-\$265.05	07/23/2013
FINES - 54 337763 July 2013 FINES - 54	CRESCENT BRASS MANUFACTURING -07-00-3622			\$265.05 \$265.05	-\$265.05 - \$265.05	
FINES - 54 337763 July 2013 FINES - 54 337763	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05 \$265.05 \$265.05 \$265.05	-\$265.05 -\$265.05 -\$265.05 -\$265.05	07/23/2013
FINES - 54 337763 July 2013 FINES - 54 337763	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05 \$265.05 \$265.05	-\$265.05 -\$265.05	07/23/2013
FINES - 54 337763 July 2013 FINES - 54 337763 337763	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05 \$265.05 \$265.05 \$265.05	-\$265.05 -\$265.05 -\$265.05 -\$265.05	07/23/2013
July 2013 FINES - 54 337763 337763 September	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05 \$265.05 \$265.05 \$265.05	-\$265.05 -\$265.05 -\$265.05 -\$265.05	07/23/2013
July 2013 FINES - 54 337763 337763 September FINES - 54	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING	07/15/2013 07/15/2013	2012 22/70 (2	\$265.05 \$265.05 \$265.05 \$265.05 \$530.10	-\$265.05 -\$265.05 -\$265.05 -\$265.05	07/23/2013 07/23/2013
July 2013 FINES - 54 337763 337763 September FINES - 54 377019	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING 2013 -07-00-3622 AKZO NOBEL COATINGS, INC. R&D	07/15/2013 07/15/2013	2013-2ND Q	\$265.05 \$265.05 \$265.05 \$265.05 \$530.10	-\$265.05 -\$265.05 -\$265.05 -\$530.10	07/23/2013 07/23/2013
July 2013 FINES - 54 337763 September FINES - 54 377019 364195	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING 2013 -07-00-3622 AKZO NOBEL COATINGS, INC. R&D BIMBO BAKERIES USA, INC.	07/15/2013 07/15/2013 09/19/2013 09/19/2013	2013-2ND Q	\$265.05 \$265.05 \$265.05 \$265.05 \$530.10 \$100.00 \$500.00	-\$265.05 -\$265.05 -\$265.05 -\$265.05 -\$530.10	07/23/2013 07/23/2013 10/15/2013 10/15/2013
July 2013 FINES - 54 337763 337763 September FINES - 54 377019	CRESCENT BRASS MANUFACTURING -07-00-3622 CRESCENT BRASS MANUFACTURING CRESCENT BRASS MANUFACTURING 2013 -07-00-3622 AKZO NOBEL COATINGS, INC. R&D	07/15/2013 07/15/2013		\$265.05 \$265.05 \$265.05 \$265.05 \$530.10	-\$265.05 -\$265.05 -\$265.05 -\$530.10	07/23/2013 07/23/2013

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225562	CDECCENT DD ACCAMANA CTUDDIC	00/10/2012	2012 2010 0	#2 200 00	#2 200 00	10/21/2012
337763	CRESCENT BRASS MANUFACTURING	09/19/2013	2013-2ND Q	\$2,200.00	-\$2,200.00	10/21/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05	-\$265.05	10/09/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05	-\$265.05	10/09/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05		############
365363	DAIRY FARMERS OF AMERICA	09/19/2013	2013-2ND Q	\$8,000.00	-\$8,000.00	10/01/2013
331089	IFS INDUSTRIES	09/19/2013	2013-2ND Q	\$6,000.00	-\$6,000.00	10/04/2013
331628	INTERSTATE CONTAINER READING	09/19/2013	2013-2ND Q	\$600.00	-\$600.00	10/08/2013
338345	LENTZ MILLING	09/19/2013	2013-2ND Q	\$250.00	-\$250.00	10/15/2013
336996	NATIONAL/YORGEY'S CLEANERS	09/19/2013	2013-2ND Q	\$200.00	-\$200.00	01/21/2014
334341	REMCON PLASTICS INC	09/19/2013	2013-2ND Q	\$300.00	-\$300.00	10/10/2013
377020	SAVOR STREET FOODS	09/19/2013	2013-2ND Q	\$50.00	-\$50.00	10/15/2013
337723	ST JOSEPH MEDICAL CENTER	09/19/2013	2013-2ND Q	\$300.00	-\$300.00	10/21/2013
331082	SWEET STREET DESSERTS	09/19/2013	2013-2ND Q	\$1,200.00	-\$1,200.00	10/15/2013
337716	TOM STURGIS PRETZELS INC	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/18/2013
338340	VAN BENNETT	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/15/2013
337710	YUASA BATTERY INC	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/10/2013
				\$44,795.15	-\$44,530.10	
November 20	013					
FINES - 54-	07-00-3622					
337763	CRESCENT BRASS MANUFACTURING	11/18/2013		\$265.05	-\$265.05	11/25/2013
337763	CRESCENT BRASS MANUFACTURING	11/18/2013		\$265.05	-\$265.05	11/25/2013
				\$530.10	-\$530.10	•
December 20	013					
FINES - 54-	07-00-3622					
334354	CARPENTER CORPORATION	12/19/2013	2013-3RD Q	\$1,600.00	\$0.00	#############
341901	CLOISTER CAR WASH AND LUBE	12/19/2013	2013-3RD Q	\$600.00	-\$600.00	01/29/2014
331117	CLOVER FARMS DAIRY	12/19/2013	2013-3RD Q	\$21,750.00	-\$21,750.00	01/22/2014
337763	CRESCENT BRASS MANUFACTURING	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/29/2014
331628	INTERSTATE CONTAINER READING	12/19/2013	2013-3RD Q	\$200.00	-\$200.00	01/30/2014
337726	READING PLATING & POLISHING	12/19/2013	2013-3RD Q	\$200.00	-\$200.00	01/29/2014
340271	READING TRUCK BODY LLC	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/31/2014
377020	SAVOR STREET FOODS	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/29/2014
331082	SWEET STREET DESSERTS	12/19/2013	2013-3RD Q	\$50.00	-\$50.00	01/14/2014
337716	TOM STURGIS PRETZELS INC	12/19/2013	2013-3RD Q	\$300.00	- \$300.00	
337713	UNITED CORRSTACK	12/19/2013	2013-3RD Q 2013-3RD Q	\$100.00	- \$100.00	01/15/2014
338340	VAN BENNETT	12/19/2013	2013-3RD Q 2013-3RD Q	\$50.00		#############
330340	TAN DEMILLI	12/17/2013	2013-3KD Q	Ψ30.00	ψ0.00	
				\$25,150.00	-\$23,500.00	
				\$25,150.00	-523,300.00	

February 20	14					
FINES - 54	-07-00-3622					
337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
			-	\$795.15	-\$795.15	•
March 2014						
FINES - 54	-07-00-3622					
331117	CLOVER FARMS DAIRY	03/24/2014	2013-4TH Q	\$5,000.00	\$0.00	###############
331089	IFS INDUSTRIES	03/24/2014	2013-4TH Q	\$3,050.00	\$0.00	#############
331628	INTERSTATE CONTAINER READING	03/24/2014	2013-4TH Q	\$250.00	\$0.00	############
336996	NATIONAL/YORGEY'S CLEANERS	03/24/2014	2013-4TH Q	\$200.00	\$0.00	#############
331621	PRIZER PAINTER STOVE WORKS	03/24/2014	2013-4TH Q	\$50.00	\$0.00	##############
331094	QUAKER MAID MEATS	03/24/2014	2013-4TH Q	\$200.00	\$0.00	###############
			-	\$8,750.00	\$0.00	•
			Grand Total:	\$164,975.75	-\$152,210.70	

NOTES: September - Crescent Brass Manufacturing appears in other reports as an adjustment or correction entered in error, not unpaid

Corrected Grand Total: \$164,710.70 (\$152,210.70)

APPENDIX 8

DATA MONITORING SPREADSHEET

QUARTERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

ANNUAL PRIORITY POLLUTANT SCANS ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS

PERFORMED:

1/29-30/13: Influent 1/29-30/13: Effluent 2/5/13: Biosolids

2013 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND PLANT EFFLUENT

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 2/5/13 AND 8/13/13

Additional Testing for bis(2-Ethylhexyl)phthalate on Plant Influent, Effluent and Biosolids

2013 Influent Testing for TKN, Total Phosphorus, o-phosphate

Additional Testing for Total Dissolved Solids on Plant Influenrt and Effluent

DEP letter and NPDES amendment for mercury limit

Facility Name:	CITY OF READING WWTP	1		_						
Facility ID:	PAP026549	UNITS:	MG/L		Quarterly		arterly		rterly	Quai
Location:	INFLUENT						Date	PRINCES AND RESIDENCE OF THE PROPERTY OF THE P	**************************************	Date
	Pollutant	100	Frequency		1/30/2013		4/25/2013		7/24/2013	10/21/2013
01002	ATSTAIC/TOTAL AVEC 18 A SERVICE	0.0594	4	0.002		<0.001		<0.001		<0.001
01027	CADMILMENODAL - SP. S.	0.0198	4	<0.005		<0.005		<0.005		<0.005
01034	© FIGURIUM STOTAL	0.1293	4	0.014		0.008		0.013		0.007
01042	CORPERSIONAL	0.1602	4	0.052		0.031		0.07		0.04
00722	OYANIDESERBERAMENABURYERASE	0.023	4		<0.004		<0.004		0.005	
00720	CYANIDE GOTAL VELVE OF STREET	0.34	4		0.006		0.005		0.005	
01051	CEARGODAL COMPANY	0.0581	4	0.02		<0.01		0.01		<0.01
71900	MERCURYSTOTAL 35 CONSESS L	0.0002	4	0.0002		<0.0001		0.0003		<0.0001
01062	MOEVEDENUMETROTIAS	0.014	0	0.02		0.02		0.04		0.04
01067	Nickelijovalije	0.4668	4	0.02		<0.005		0.007		<0.005
46000	EHENOISE TOTAL HAR STEAM AND ST	0.3618	0	-	0.151		0.079		0.032	
01147	SECENTIMETOTAL SECRETARIES	0.027	1	<0.002						
01077	SINGER TOTAL VALUE AS THE SELECTION	0.0989	4	<0.005		<0.005		<0.005		<0.005
01092	ZNOSTOTALES	0.3825	4	0.188		0.13		0.22		0.175
	Oll and Grease II. deal (1995) in the second				14		16		<5	
	Silica Gel				<5		<5		<5	
				7.2		4.6		5.1		7.4
		70								
	MAXIV. See and distribution of the control of the c	X								
		X					· · ·			
	Will a find that it was a single of the second of the seco									
	King Carlot and Analysis and An			†						
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		16 <u> </u>	 							
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Facility Name:	CITY OF READING WWTP	7					
Facility ID:	PAP026549	terly			_		
Location:	INFLUENT	Date	Date	Date		Entry Count	500 Miles
	Pollutant	10/22/2013		<u> </u>	DTfl		Total
01002	AUSTROLOUS BARRES	<u></u>				4	
01027	GADMINE TOTAL TO A SERVICE S				[4	
01034	GREGOVICALE COLORESPONDE SELECTION OF THE SELECTION OF TH				[4	
01042	Copperation					4	
00722	(CYANIDESEREN/AMENABURILITATION	<0.004				4	
00720	©YANIPERSIOTIAL SEASON SEESTINGS	0.005				4	
01051	EFARMATO DATA STORY				1	4	
71900	MERCURY/HOLAL SEE					4	
01062	Monagarandara				1	4	
01067	NICKEPAIOTAL AREA SEEN				1	4	
46000	PERMOTE ROTAL STATE OF THE STAT	0.079				4	
01147	SELENIUMIZIOTALE NEW TOTAL SE				1	1	
01077	SILVERENCOMO SE O DESCRIPCIO DE LA CO	words			1	4	
01092	Zhjelataria e e e e e e e e					4	
0.002	Olland Crease III.	23		 	1	4	
	Silver City	<5	1		†	4	
					1	4	
		IN.	 		+	0	
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		3	 -		-	0	
				<u> </u>	4	0	
		<u> </u>		<u> </u>	4	0	
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		<u> </u>		<u> </u>	1	0	1
						0	1
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Facility Name:	CITY OF READING WWTP			_						
Facility ID:	PAP026549	UNITS:	MG/L		uarterly		rterly		rterly	Qua
Location:	EFFLUENT			The Total Control of the Print			Date (0010		THE STATE DESIGNATION OF SHORT DESIGNATION OF THE	Date
. The state of the state of	Pollutant		Frequency				4/25/2013		7/24/2013	10/21/2013
01002	ARSENIC- TOTAL	0.427				<0.001		<0.001		<0.001
01027	CADMIUM- TOTAL	0.018		<0.005		<0.005		<0.005		<0.005
01034	CHROMIUM- TOTAL	0.022	4	0.005		0.005		<0.005		<0.005
01042	COPPER- TOTAL	0.075	4	0.014		0.017		0.014		0.027
00722	CYANIDE- FREE (AMENABLE)	0.023	4		<0.004		<0.004		<0.004	
00720	CYANIDE- TOTAL	Monitor	4		0.006		0.005		0.005	
01051	LEAD- TOTAL	0.111	4	<0.01		<0.01		<0.01		<0.01
71900	MERCURY- TOTAL	0.00007	4	<0.0001		<0.0001		<0.0001		<0.0001
01062	MOLYBDENUM- TOTAL	No Goal	O	0.01		0.01		0.03		0.03
01067	NICKEL- TOTAL	3.43	4	0.008		0.006		<0.005		<0.005
46000	PHENOLS- TOTAL	0.136	C		0.042		0.021		0.021	
01147	SELENIUM- TOTAL	0.027	C	<0.002						
01077	SILVER- TOTAL	0.037	4	<0.005		<0.005		<0.005		<0.005
01092	ZINC- TOTAL	0.406	4	0.056		0.066		0.044		0.058
	Oil and Grease				<5		<5		<5	
	Silica Gel				<5		<5		<5	
	Phosphorus			2.72		3.8		1.5		3.2
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Facility Name	: CITY OF READING WWTP		
Facility ID:	PAP026549	rterly	
Location:	EFFLUENT	Date	Entry Count
		10/22/2013 DTfl	65 Total
01002	ARSENIC- TOTAL		4
01027	CADMIUM- TOTAL		4
01034	CHROMIUM- TOTAL		4
01042	COPPER- TOTAL		4
00722	CYANIDE- FREE (AMENABLE)	0.004	4
00720	CYANIDE- TOTAL	0.006	4
01051	LEAD- TOTAL		4
71900	MERCURY- TOTAL		4
01062	MOLYBDENUM- TOTAL		4
01067	NICKEL- TOTAL		4
46000	PHENOLS- TOTAL	<0.01	4
01147	SELENIUM- TOTAL		1
01077	SILVER- TOTAL		4
01092	ZINC- TOTAL		4
	Oil and Grease	<5	4
	Silica Gel	<5	4
	Phosphorus		4
	·		0
			0
-			0
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Facility ID:	CITY OF READING WWTP PAP026549	UNITS:	MG/KG	P.S.	QTR	P.S.	P.S.	P.S.	P.S.	Quarterly
Location:	SLUDGE	UNITS.		Date		Date	F.S.	Date	F.S.	Date ~
LOGULION.	Pollutant	Goals	Frequency	1/2/2013			3/12/2013		5/14/2013	
01002	ARSENIC- TOTAL	41	4	3.52						
01027	CADMIUM- TOTAL	39	4	4.36						
01034	CHROMIUM- TOTAL	Monitor	4	105.9	77.2	98.6	106.6	103.8	87.3	83.9
01042	COPPER- TOTAL	1500	4	517.7	446	484.8	502.9	441.8	412.8	
00722	CYANIDE- FREE (AMENABLE)	Monitor	4		<2					<2
00720	CYANIDE- TOTAL	Monitor	4		5		***************************************			2
01051	LEAD- TOTAL	300	4	139.3	120	143.7	157.2	128.9	108.6	
71900	MERCURY- TOTAL	17	4	1.22	2	1.81	2.18	2.29	1.76	
01062	MOLYBDENUM- TOTAL	75	0	61.1	40	56.6	72	69		
01067	NICKEL- TOTAL	420	4	62.8	32	49.6	48.1	48.7	40.9	
46000	PHENOLS- TOTAL	No Goal	0	 	118					68.4
01147	SELENIUM- TOTAL	100	1	6.22		7.41	6.18	6.23	6.15	
01077	SILVER- TOTAL	Monitor	4		6					5.7
01092	ZINC- TOTAL	2800	4	1521.5	1130	1397.3	1465.5	1471.7	1240.3	
	Phosphorus, Total				19600					15300
	Oil and Grease				43110					9663
	Oil and Grease, TPH				9671					2380
	Nitrogen Ammonia				11000					
	BOD				80200					
	Bis				<5.99					
	Barium				306					
8.46	PCB's			<0.14	<1.2	<0.42	<0.32	<0.33	<0.34	
M-11.						· · · · · ·				

	E: CITY OF READING WWTP									
Facility ID:	PAP026549	P.S.	P.S.	P.S.	Qrt/Fm 43		Quarterly		P.S.	P.S.
Location:	SLUDGE	Date	Date	Date			<u> </u>	Date	Date	Date
	Pollutant	6/4/2013			8/13/2013			10/2/2013		
01002	ARSENIC- TOTAL	5.33		 	2	3.2	ļ	3.41	3.29	
01027	CADMIUM- TOTAL	3.18			3	-		3.76		3.42
01034	CHROMIUM- TOTAL	91.7	116.1	182.5						
01042	COPPER- TOTAL	432.1	498.9	439.4	529	496.5		453.4	432.7	485.1
00722	CYANIDE- FREE (AMENABLE)				<2		2			
00720	CYANIDE- TOTAL				4		5	:		
01051	LEAD- TOTAL	110.9	108.2	119.6	180	118.9		106.6	94.8	111.8
71900	MERCURY- TOTAL	1.14	1.69	1.32	0.9	2.37		1.41	1.33	2.81
01062	MOLYBDENUM- TOTAL	82.2	81.5	63.5	72	63.1		72.2	56.3	54.7
01067	NICKEL- TOTAL	37.5	43.5	112.8	60.6	86.4		65.9	42.9	45.1
46000	PHENOLS- TOTAL				42		50.5			
01147	SELENIUM- TOTAL	5.23	6.4	5.42	5	4.3		4.61	4.37	4.39
01077	SILVER- TOTAL				6.8		7			
01092	ZINC- TOTAL	1381.2	1541.9	1544.3	1570	1376.3		1699	1271	1360.4
	Phosphorus, Total				12900		17600			
	Oil and Grease				19840		25120			
	Oil and Grease, TPH				5271	·····	7750			
	Nitrogen Ammonia				46					
	BOD									
	Bis				4.5		<25	9.7		
	Barium				397					
	PCB's	<0.35	<0.34	<0.31	<0.905	<0.61		<0.32	<0.36	<0.35
					1					
			<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>

Facility Name	e: CITY OF READING WWTP				
Facility ID:	PAP026549				
Location:	SLUDGE	Date	Date		Entry Count
0.1000	Pollutant			DTfl	193 Total
01002	ARSENIC- TOTAL			4	14
01027	CADMIUM- TOTAL			_	14
01034	CHROMIUM- TOTAL			_	16
01042	COPPER- TOTAL			4	14
00722	CYANIDE- FREE (AMENABLE)			_	4
00720	CYANIDE- TOTAL				4
01051	LEAD- TOTAL				14
71900	MERCURY- TOTAL				14
01062	MOLYBDENUM- TOTAL				14
01067	NICKEL- TOTAL				14
46000	PHENOLS- TOTAL				4
01147	SELENIUM- TOTAL				14
01077	SILVER- TOTAL				4
01092	ZINC- TOTAL				14
	Phosphorus, Total				4
	Oil and Grease				4
	Oil and Grease, TPH			7	4
	Nitrogen Ammonia				2
	BOD				1
	Bis			7	4
	Barium				2
	PCB's			7	14
-					0
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Facility Name:	CITY OF READING WWTP											
Facility ID:	PAP026549			P.P's/C	uarterly	Qua	rterly		rterly		rterly	
Location:	6th			Date		Date					Date] [
	Pollutant	Goals	Frequency	1/29/2013	1/30/2013	4/24/2013	4/25/2013	7/24/2013	7/25/2013	10/21/2013	10/22/2013	DTfl
01002		0.0594	4	0.003		<0.001		<0.001		<0.001		
01027		0.0198	4	<0.005		<0.005		<0.005		<0.005		
01034		0.1293	4	0.019		0.016		0.006		0.012		
01042		0.1602	4	0.055		0.054		0.029		0.048		
00722		0.023	4		<0.004		<0.004		0.005		0.004	
00720	E	0.34	4		0.006		<0.004		0.006		0.01	
01051	And the second s	0.0581	4	0.02		0.01		<0.01		<0.01		
71900		0.0002	4	0.0001		0.0001		<0.0001		<0.0001		
01062		0.014	0	0.02		0.02		0.04		0.04		
01067		0.4668	4	0.026		0.007		<0.005		<0.005]
46000		0.3618	0		0.121		0.088		0.068		0.095	
01147		0.027	1	<0.002								
01077		0.0989	4	<0.005		<0.005		<0.005		<0.005		
01092		0.3825	4	0.206		0.242		0.106		0.2		
					30		52		19		30	
					<5		<5		<5		<5	
				5.35		5.1		2.6		4.3]

Facility Name:	CITY OF READING WWTP											
Facility ID:	PAP026549			P.P's/0	Quarterly	Qua	rterly	Qua	rterly	Qua	rterly	_
Location:	Grit Chamber			Date		Date			Date		Date	Entry
	Pollutant	Goals	Frequency	1/29/2013	1/30/2013	4/24/2013	4/25/2013	7/23/2013	7/24/2013	10/21/2013	10/22/2013	DTfl
01002		0.0594	4	<0.001		<0.001		<0.001		<0.001		0
01027		0.0198	4	<0.005		<0.005		<0.005		<0.005		0
01034		0.1293	4	<0.005		<0.005		<0.005		<0.005		0
01042		0.1602	4	0.066		0.062		0.078		0.099		0
00722		0.023	4	,	<0.004		<0.004		<0.004		<0.004	0
00720	<u> </u>	0.34	4		<0.004		<0.004		0.005		<0.004	0
01051		0.0581	4	<0.01		<0.01		<0.01		<0.01		0
71900		0.0002	4	0.0001		<0.0001		<0.0001		0.0009] 0
01062		0.014	0	<0.01		<0.01		<0.01		0.02		0
01067		0.4668	4	0.005		<0.005		<0.005		<0.005		0
46000		0.3618	0		0.044		0.059		0.07		0.06	0
01147		0.027	1	<0.002								0
01077	San Marie Co	0.0989	4	<0.005		<0.005		<0.005		<0.005		0
01092		0.3825	4	0.14		0.135		0.162		0.196		0
					7		13		19		20	0
					<5		<5		<5		<5	1 0
				5.5		4.5		4		7.5		1 0
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Facility Name:	CITY OF READING WWTP												
Facility ID:	PAP026549	UNITS:	MG/L	P.P's/0	Quarterly	Qu	arterly	Qua	rterly	Qua	rterly	_	
Location:	INFLUENT			Date	Date	Date	Date			Date	Date		Entry Count
	Pollutant	Goals	Frequency	1/29/2013	1/30/2013	4/24/2013	4/25/2013	7/23/2013	7/24/2013	10/21/2013	10/22/2013	DTfl	65
01002		0.0594	4	0.002		<0.001		<0.001		<0.001			4
01027		0.0198	4	<0.005		<0.005		<0.005		<0.005			4
01034		0.1293	4	0.014		0.008		0.013		0.007			4
01042		0.1602	4	0.052		0.031		0.07		0.04			4
00722		0.023	4		<0.004		<0.004		0.005		<0.004		4
00720		0.34	4		0.006		0.005		0.005		0.005		4
01051		0.0581	4	0.02		<0.01		0.01		<0.01			4
71900		0.0002	4	0.0002		<0.0001		0.0003		<0.0001			4
01062		0.014	0	0.02		0.02		0.04		0.04			4
01067		0.4668	4	0.02		<0.005		0.007		<0.005			4
46000		0.3618	0		0.151		0.079		0.032		0.079		4
01147		0.027	1	<0.002									1
01077	Par 62 (16 H)	0.0989	4	<0.005		<0.005		<0.005		<0.005			4
01092		0.3825	4	0.188		0.13		0.22		0.175			4
					14		16		<5		23		4
		į			<5		<5		<5		<5		4
		Ž		7.2		4.6		5.1		7.4			4
	Secretary and the second second	ž.											0

Casilia ID.	CITY OF READING WWTP	- 1											
Facility ID:	PAP026549	UNITS	MG/L	P.P's/q	uarterly	Qua	rterly	Qua	rterly	Qua	rterly	_	
Location:	EFFLUENT					Date				Date	Date	i	Entry Count
	Pollutant	Goals	Frequency	1/29/2013	1/30/2013	4/24/2013	4/25/2013	7/23/2013	7/24/2013	10/21/2013	10/22/2013	DTfl	6:
01002	ARSENIC- TOTAL	0.427	4	0.002		<0.001		<0.001		<0.001		l	4
01027	CADMIUM- TOTAL	0.018	4	<0.005		<0.005		<0.005		<0.005		l	2
01034	CHROMIUM- TOTAL	0.022	4	0.005		0.005		<0.005		<0.005		l	2
01042	COPPER- TOTAL	0.075	4	0.014		0.017		0.014		0.027		l	2
00722	CYANIDE- FREE (AMENABLE)	0.023	4		<0.004		<0.004		<0.004		0.004	ĺ	2
00720	CYANIDE- TOTAL	Monitor	4		0.006		0.005		0.005		0.006	l	2
01051	LEAD- TOTAL	0.111	4	<0.01		<0.01		<0.01		<0.01			2
71900	MERCURY- TOTAL	0.00007	4	<0.0001		<0.0001		<0.0001		<0.0001			2
01062	MOLYBDENUM- TOTAL	No Goal	0	0.01		0.01		0.03		0.03		İ	2
01067	NICKEL- TOTAL	3.43	4	0.008		0.006		<0.005		<0.005		ĺ	2
46000	PHENOLS- TOTAL	0.136	0		0.042		0.021		0.021		<0.01	ĺ	2
01147	SELENIUM- TOTAL	0.027	0	<0.002								İ	1
01077	SILVER- TOTAL	0.037	4	<0.005		<0.005		<0.005		<0.005		İ	2
01092	ZINC- TOTAL	0.406	4	0.056		0.066		0.044		0.058			2
	Oil and Grease				<5		<5		<5		<5	ĺ	2
	Silica Gel				<5		<5		<5		<5	ĺ	2
	Phosphorus			2.72		3.8		1.5		3.2		ĺ	4
				2.72	-	3.8	╌	5		5 <5	· · · · · · · · · · · · · · · · · · ·		

	: CITY OF READING WWTP			ln 0	0.70	D 0	D.0	D.0	D 0	0
Facility ID:	PAP026549	UNITS:		P.S.	QTR	P.S. Date	P.S.	P.S. Date	P.S.	Quarterly Date
Location:	SLUDGE Pollutant	Goals	COLUMN TO SERVICE SERV	Date 1/2/2013		2/11/2013			5/14/2013	
01002	ARSENIC- TOTAL	41	Frequency	3.52						
01002	CADMIUM- TOTAL	39		4.36					3.07	
			4	105.9		98.6			87.3	83.9
01034	CHROMIUM- TOTAL	Monitor	4							
01042	COPPER- TOTAL	1500	4	517.7		484.8	502.9	441.8	412.0	<2
00722	CYANIDE- FREE (AMENABLE)	Monitor	4		<2					
00720	CYANIDE- TOTAL	Monitor	4		5		1== 5	100.0	400.0	2
01051	LEAD- TOTAL	300		139.3			157.2		 	
71900	MERCURY- TOTAL	17		1.22		1.81	2.18			
01062	MOLYBDENUM- TOTAL	75		61.1	40					
01067	NICKEL- TOTAL	420	4	62.8			48.1	48.7	40.9	
46000	PHENOLS- TOTAL	No Goal	0		118					68.4
01147	SELENIUM- TOTAL	100	1	6.22	4	7.41	6.18	6.23	6.15	
01077	SILVER- TOTAL	Monitor	4		6					5.7
01092	ZINC- TOTAL	2800	4	1521.5	1130	1397.3	1465.5	1471.7	1240.3	
	Phosphorus, Total				19600					15300
	Oil and Grease				43110					9663
	Oil and Grease, TPH				9671					2380
	Nitrogen Ammonia				11000					
	BOD				80200					
	Bis				<5.99					
	Barium				306					
	PCB's			<0.14	<1.2	<0.42	<0.32	<0.33	<0.34	
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	WARRIAN CONTRACTOR OF THE PROPERTY OF THE PROP							_		

	CITY OF READING WWTP	\square_{\cdot}			0.45		•		D 0	5.0
Facility ID:	PAP026549	P.S.	P.S.	P.S. Date	Qrt/Fm 43			P.S. Date	P.S. Date	P.S. Date
Location:	SLUDGE Pollutant	Date 6/4/2013			Date 8/13/2013		10/2/2013			
01002	ARSENIC- TOTAL	5.33		† · · · · ·		1	 	3.41	3.29	
01027	CADMIUM- TOTAL	3.18	+					3.76		3.42
01034	CHROMIUM- TOTAL	91.7		182.5					<u> </u>	
01042	COPPER- TOTAL	432.1	498.9	 	-			453.4	432.7	
00722	CYANIDE- FREE (AMENABLE)		,,,,,,		<2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2			
00720	CYANIDE- TOTAL				4		5			
01051	LEAD- TOTAL	110.9	108.2	119.6	180	118.9		106.6	94.8	111.8
71900	MERCURY- TOTAL	1.14	1.69	1.32	0.9	2.37		1.41	1.33	2.81
01062	MOLYBDENUM- TOTAL	82.2	81.5	63.5	72	63.1		72.2	56.3	54.7
01067	NICKEL- TOTAL	37.5	43.5	112.8	60.6	86.4		65.9	42.9	45.1
46000	PHENOLS- TOTAL				42		50.5		Ü	
01147	SELENIUM- TOTAL	5.23	6.4	5.42	5	4.3		4.61	4.37	4.39
01077	SILVER- TOTAL				6.8		7			
01092	ZINC- TOTAL	1381.2	1541.9	1544.3	1570	1376.3		1699	1271	1360.4
	Phosphorus, Total			-	12900		17600			
	Oil and Grease				19840		25120			
	Oil and Grease, TPH				5271		7750			
	Nitrogen Ammonia				46					
	BOD									
	Bis				4.5		<25	9.7		
	Barium				397			40.0		
	PCB's	<0.35	<0.34	<0.31	<0.905	<0.61		<0.32	<0.36	<0.35
- 										

Facility Name:	CITY OF READING WWTP				
Facility ID:	PAP026549				
Location:	SLUDGE	Date	Date		Entry Count
	Pollutant			DTfl	193 Tota
01002	ARSENIC- TOTAL				14
01027	CADMIUM- TOTAL				14
01034	CHROMIUM- TOTAL				16
01042	COPPER- TOTAL				14
00722	CYANIDE- FREE (AMENABLE)				4
00720	CYANIDE- TOTAL				4
01051	LEAD- TOTAL				14
71900	MERCURY- TOTAL				14
01062	MOLYBDENUM- TOTAL				14
01067	NICKEL- TOTAL				14
46000	PHENOLS- TOTAL				4
01147	SELENIUM- TOTAL				14
01077	SILVER- TOTAL				4
01092	ZINC- TOTAL				14
	Phosphorus, Total				4
	Oil and Grease				4
	Oil and Grease, TPH				4
	Nitrogen Ammonia				2
	BOD				1
	Bis				4
	Barium				2
	PCB's				14
					0
					0
				\dashv	0
					0
-					0
					0
				-	0
					0
				\dashv	0
				\dashv	
<u> </u>	<u> </u>				0



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall

815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



P.P 13+ Otr

DEPT. OF PUBLIC WOLKS

Date of Report: 02/12/13

Lab ID:

124-13-0004897

Date Collected:

01/29/13 08:40

Collected By:

CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

Jampee 1636. 6611, 13 723 (66111)03166, 4	dar certy in for fey to	c ca carres /		,	pare neoc	. ivca.	01/30	,, 15 15.4
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.35	mg/l	2.5	50	SM 4500P-E	02/01	06:55	ALD
INORGANIC								
TOTAL								
Antimony, Totaĺ	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.003	mg/l	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.019	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.055	mg/l	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	0.02	mg/l	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.026	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.206	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB

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> Richard Wolfe Technical Director

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Page 1 of 5





Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



And the read courses senting of

Date of Report:

02/12/13

Lab ID:

124-13-0004897

DEPT. OF PUBLIC WORKS

Date Collected:

01/29/13 08:40

Collected By:

ollected By: CLIENT

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
Phenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
BASE NEUTRALS						•		
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Ethylhexyl) phthalate	12	ug/l	5	2	EPA 625	02/01	15:30	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB

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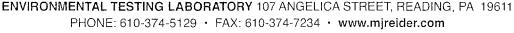
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lechnical Direct

Richard Wolfe

Page 2 of 5









Attention: Amy L. Morriss

Reported To: City of Reading WWTP

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



PROMING

Date of Report: 02/12/13

c/o City Hall

Lab ID:

124-13-0004897

815 Washington St. Reading PA 19601

DEPT. OF PUBLIC VICE XS

Date Collected: 01/29/13 08:40 Collected By:

CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Dimethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Fluorene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Isophorone	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
EPA 625 Extraction	Complete		0	0	EPA 625	01/31	00:80	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PESTICIDES								

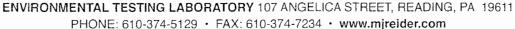
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Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/12/13

Lab ID:

124-13-0004897

Date Collected: DEPT. OF PUBLIC WG. XS

01/29/13 08:40

Collected By:

CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
/ /1 000								
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	T₩H
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
a lpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	02/02	04:40	T₩H

COMMENTS

01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

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Richard Wolfe

Technical Director

Page 4 of 5





M.J. Reider Associates, Inc.



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Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/12/13

Lab ID:

124-13-0004897

DEPT. OF PUBLIC WELKS

Date Collected:

01/29/13 08:40

Collected By:

CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received:

Procedure

01/30/13 15:45

Rep. Limit Dilutn Factor Test Te

Date

Toot

Time Analyst

O2 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Unit

Result

- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- O4 The svoc library search tentatively identified: several Decanoic Acids, 2-Butoxy-Ethanol, Caffeine, Cyclohexadecane, Z-11-Hexadecenoic acid, (E)-5-Octadecene.
- O5 The svoc library search also tentatively identified: three Cosanes, (Z,Z)-9,12-Octadecadienoic Acid, Cholestanol, Hexamethyl-Tetracosahexaene, 17-(1,5-Dimethylhexyl)-Dimethyl
- O6 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

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Richard Wolfe

Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Fig. Den Const

Date of Report:

02/12/13

Lab ID:

124-13-0004898

Date Collected:

01/30/13 08:35

Collected By:

CLIENT

ger, or resulted to

Sample Desc: 6th, 13-924 (Grab, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

	Result	Unit 	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001x	01/31	15:46	JCL
Phenols (4AAP)	0.121	mg/l	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (0&G)	30	mg/l	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	02/01	13:00	WXC

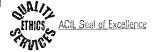
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[°]Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

1929 C. C. PUBLIC We. 76

Lab ID:

124-13-0004910

Date Collected: 01/30/13 08:35

02/12/13

Collected By:

CLIENT

Sample Desc: 6th (13-924, 13-945, 13-951, 13-953 - Lab Composite of 4 Grabs, Quarterly

01/30/13 15:45 Date Received:

Test Time 09:23 09:23 09:23 09:23	Analyst GXF GXF GXF
09:23 09:23 09:23 09:23	GXF GXF
09:23 09:23 09:23	GXF
09:23 09:23 09:23	GXF
09:23 09:23 09:23	GXF
09:23 09:23	
09:23	GVE
	GVL
00.07	GXF
09:23	GXF
	GXF
09:23	GXF
	GXF
09:23	AV1
	09:23 09:23 09:23 09:23 09:23 09:23 09:23 09:23 09:23 09:23 09:23 09:23

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Richard Wolfe Technical Director

Page 1 of 2







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss Reported To: City of Reading WWTP

> c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004910

SIM. OF FILLER BUT IS

Date Collected: 01/30/13 08:35

Collected By:

CLIENT

Sample Desc: 6th (13-924, 13-945, 13-951, 13-953 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

01/30/13 15:45 Date Received:

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF .
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and Limonene.

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Richard Wolfe

Technical Director

Page 2 of 2





M. J. R	eider Associa	ates, Inc.			CHA	IN O	F	TOD	Y REC	CORD						•
	elica Street							Print Le	• •				R	33	775	Page of
	PA 19611				(INST	FRUCTI	ONS O	N BACK (OF THIS I	FORM)						6. Report Type:
Phone: 6	10-374-5129 F	AX: 610-374-72	34			ION: V		eport; Yel						Υ.	¥(A)	Routine
1. Client (Company or Individual):) <u>.</u>		Address:	8	15		W	ashi	nel	on:	<u>st.</u>					Standard QC
City of	jeading		City: RE	adi a	۱ς	Si	tate: 🗸) Cر ZIF	- 79	601	Phone:			FAX		Data Package
2. Invoice To: (If different from above)			Address:)									1		7. Turnaround Time
Lab#124	}		City:			Si	tate:	ZIF	o:		Phone:			FAX		Standard
3. Client Project Name / #: Priori	ty Pollulant	· Quarter	y i. P.O. No.:							5. Sam	pled By:	:			Y. 3.	RUSH:/
Matrix Code (for item 12)	Container Code SIZE	es (for item 13)	A = Ascorbic	Acid	le (for ite T = Na			, Sa	mple Re	ceipt info rature @	Same Section Bullion	n io		N	Samples Shipped or Ha	and Delivered
DW = Drinking Water	2L = 2 Liter	V = VOA vial	C = HCl	Acid	E = E				是不是 经现代的	s receiv	建筑地域的	e7	12 - 78 project 30 10	and the state of t	Tracking #;	
GW = Ground Water	L = Liter	G = Glass	N = HNO3		L = NH	14CI			Adding to Are	Contair	A STATE OF THE PARTY OF THE PAR	0.00	8) - N -	Cooler Return	n Fee
ww = waste Water	500 = 500ml	P = Plastic	S = H2SO4			nc Aceta			The Age of the Land	Free of I	5. 134 (146)	THE PERSON NAMED IN	Ÿ	N N	ICE CHEST N	IUMBER:
S = Soil O = Other	250 = 250ml 125 = 125ml	M = Micro O ≈ Other	P = H3PO4 H = NaOH		0 = OI	corbic/l	HCI	17 S		eal Intac						
O - Other	40 = 40ml	0 ~ Other		onochloroa		~		Mct	als:	A5, A5	Be,C	0,6	,Cu ,1	18, Po	, Mo, NI, Sb,	Se, T1, 21
COMPLIANCE PURPOSE: Public Drinking Water:	PA SDWA Forms	Required		ПЕН	A/Real	ltv	16	i. (Com	posi	le	VO	od A	Hles		
						,	١,	1./		500/	500/	1_/	V/	L/	13. Containe	er: Size / Type
PWSID#				NP	DES		ig		10	<i>p</i>	16	76	140	16	14. Preserva	ifive
MURA 9. S	ample		10.		11	. Т	12.	5 5	N	H/A	S	C	C	_	 	, are to the control of the control
	escription			T	site	- I	"	5 # # ####	444		11	4.365	i de per	经规定	П	
W#	23CHPtion		Date	Time	Сощро	Grab	Matrix	l ora		STATES STATES STATES			China			s Requested
4897 (otn	13-92	2	1 29 13	840	X	\	77	1	l					H	Metals, Total	1 phosphorous
	1.) 12		1701112	1010				+	† <u>'</u>						1.25/5	:1); 608 (PCB+Pest)
11000	v2 C	. 1	130	505		1	<u>,, </u>	+	-			_	_			_
4898 + C+n	13-92	24	1 29 3	832		X	$^{\sim}$			2		2	5		CN(Tot + Free)	1
															Oil-Gresselfe	M+SGTHEM, 624(VOI)
4849 GC	13-93	1	1/29/13	813	X	V	2	1	1					4		1 Phosphobus
	 							,); 608 (PCB+ Pest)
4900 GC	13-92	12	126 13	808		X	7			7	(7	5		1	(e), Phenols,
	1,7		100	7		1.	Y	1	1	1					l .	
IIO NV CC	13-9	42	1 70 17	1100		, U	3/1	1	-		-					N456THEM), (024(VOI)
E VIEW FC	13-1	10	1-30-13	111		~ j		<u>// </u>			1		5	<u> </u>	Voa (624	
18. RELINQUISHED BY			19. RECEI	VED BY	#	1/2	71			1/30	ATE/	-	1535			pproved by:hrs
- for V	1_		-	- H	/h./	101	1			177					Comments	
				///	مركم		/		1415	1	<u> [10</u>		1593	,		
The Client, by signing, or having client	ent's agent sign, this	Chain of Custody F	orm, agrees to r	ay for the a	bove re	quested	service	es per the	MJRA Pr	rice List o	r Quotat	lion prov	ided inclu	iding any	and all attorney fees if co	illection becomes necessary.

M. J. Reider Associates, Inc.	ŀ		CHA	IN OF		STODY	REC	CORD						
107 Angelica Street	į					rint Leg					R	-33	3881	Page of
Reading, PA 19611			(INST	RUCTIC	ONS ON	BACK O	F THIS I	FORM)						6. Report Type:
Phone: 610-374-5129 FAX: 610-374-7:	234					port; Yello					*,			Routine
1. Client (Company or Individual):	Address:	8,	15	<u> </u>	CUS	hins	70	<u> </u>	<u>St</u>				19 Th	Standard QC
City of Reading	City: \	Lendir	رد	Sta	ite:	C ZIP	191	601	Phone:		(FAX	:	Data Package
2. Invoice To:-(if different from above)	Address:		J					-				V		7. Turnaround Time
	City:			Sta	nte:	ZIP	:		Phone:			FAX	<u> </u>	∠ Standard
3. Client Project Name / #: Prante Pollutant/Qu		tu Lab	HIC						pled By:			4		RUSH: //_
Matrix Code (for item 12) Container Codes (for item 13)	F F	revervative Coo	e (for ite			Sar	nple Re	ceipt Info			1877 N		Samples Shipped or H	and Delivered
SIZE TYPE	A = Asco	rbic Acid	T = Na				Considerate 1	rature @	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(b)		Method of Si	nipment:
DW = Drinking Water 2L = 2 Liter V = VOA vial GW = Ground Water L = Liter G = Glass	C = HCl	3	E = ED				Pare Martin	s receiv Contair	化一定基本加 纳	The party	୍ଷ	N N	racking #: _ Cooler Retui	π Fee:
WW = Waste Water 500 = 500ml P = Plastic	S = H2S0			c Acetat	e	10 m	Sew Morning	Free of h	27.00	100	il. Y	ı N	ICE CHEST I	UMBER:
S = Soil 250 = 250ml M = Micro	P = H3P0			corbic/H	CI	30.76		eal Intac			inty (N.	Checked by:	
O = Other 125 = 125ml O = Other 40 = 40ml	H = NaO M	H = Monochloroad	O = Oll etic Acid			17. SI	JUA)	INSTRUC	le A.	s B	بر کل الا	Cr,	Cu, Hg, Pb, A	no, Ni, Sb, Se, T., Zr
8. COMPLIANCE PURPOSE:					16.	$I \cap$		-						
Public Drinking Water: PA SDWA Forms Required		FH,	4/Realt	ty		<u></u>	2m	0051	to.	7	4.7	<u>0 H1</u>	Cambain	er: Size / Type
PWSID #		NP	DES		ers	MP	4p	30		76	140	76	13. Contain	er. Size / Type
		L—			Containers	-		H	70	^	0		14. Preserva	ative
MJRA 9. Sample	1	0.	11.	1:	2. ပို့	S	N	/A	S	١	<u></u>			
Description			posite	Grab	# #	14.57	4 T.S.							
	Date	Time	Comp			11.00		100			Seren	sas fitos en Esperant	15. Analyse	es Requested Fal phosphorous
4902 Final 13-902	1/29	13 801	X	u	56	1	1_					4	Metrons, 10	THE PROPERTY
	' '												625 (sem, -	vol) 608 (ACB+Pest)
1903 (000) 13-920	1307	2810		دبا	10 U X8			2	1	2	17/-		.	•
4905 Final 13-920	1331	13810		<u> ኦ</u> ፔ	2 188 C			J	<u> </u>	<i>></i>	135 1411	_,		+ Free), Phenols,
				_		ļ	ļ <u>.</u>	<u> </u>					orGlitema	SotHem) 624(vol)
1904 Raw 13-930	1-29-	13 914	×	i) U	6)					4	Metals, Tota	4 Cp noophorous
	,												625 (Semi ~	ici) 608 (ACB + Pest)
4905 Raw 13-929	1.20	13 905	-	X W)			2		2	5		0.3/+ (1.1.1/	ree) phenos,
New 13-101	1130	10 1 -		X (1		-	ļ	α		d	<u>ر</u>		ONG (Hem	Softem) Wat (VOL)
(a) 13					, /								046.61	(054 (VO-)
4906 FC 13942	1/30/	3 1050		1/4	13							5	10a (6	24)
18. RELINQUISHED BY	19. RE	CEIVED BY	4	16	Z				ATE		TIME			pproved by:
			<u> </u>	//		·		11	0/13	1	23.	<u> </u>	Comments:	
		//	1/	<u>In</u>				13	0/13	1	54	5		
The Client, by signing, or having client's agent sign, this Chain of Custody	Form, agrees	to pay for the a	pove ted	juested s	services	per the M	MJRA Pr	ice List o	r Quotat	ion provi	ided inclu	iding any	and all attorney fees if co	ollection becomes necessary.

M. J. Re	eider Associa	ates, Inc.			CHAII					ORD		r				- 1/
	elica Street							rint Leg					R	34	267	Page of
	PA 19611		- 1		`			BACK O		,		l				6. Report Type:
Phone: 6	10-374-5129 F/	AX: 610-374-723	4	DIST	RIBUTIO	N: Whit	te: Rep	ort; Yello	w: Lab;	Pink: Sut	omitter		 		- 6/3	Routine
Client (Company or Individual):	<i>)</i> , .		\ddrese:	7815)	لك	Cy	sh	in	2/10	M		<u> </u>			Standard QC
11 ity del K	early	n l	Sity:	o a	سررح	1 State	: / c	ZIP:	190	801	Phone:			FAX:	1.	Data Package
2. Invoice To: (if different from above)			Address:													7. Turnaround Time
	0		Sita			State		ZIP:			Phone:			FAX:		Standard
	oc. to to	11 1 2 1 5	4 - 0 No. 1-	erty	Lab		22	ZIF.			pled By:					RUSH: / /
3. Client Project Name / #: Matrix Code (for item 12)	Confeiger Code	(for item 13)		rvative Code			4	#San	inle Rec	eipt Info		n shahara		e dia la la	Samples Shipped or Ha	
Wathx Code (for item 12)	SIZE	TYPE	A = Ascorbic		T = NaS				Temper	ature @	4C? 🛫	76.01	* (ŷ.;	N <u>*-</u> -	(n) Method of Sh	Ipment:
DW = Drinking Water	2L = 2 Liter	V = VOA vial	C = HCI		E = EDT			Tropic Sold Charles	Marin of the substitute of	s receiv	V. C. T. C. T. V. C. S.	化氯化甲基 人名西西克兰地名美国	(V)	- N	Tracking #:>_	n Fee.
GW = Ground Water WW = Waste Water	L = Liter 500 = 500ml	G = Glass P = Plastic	N = HNO3 S = H2SO4		L = NH4 Z = Zinc			完成的研究的概念	Section of the	Contain ree of H	STORY CHAPARIES	estable and the second	· •	N N		UMPED!
S = Soil	250 = 250ml	M = Micro	P = H3PO4		V = Asc				COC Se	al Intact	or attac	hed?	ŶΥ	N.	Checked by:	
O = Other	125 = 125ml	O = Other	H = NaOH		O = Oth			17. SF	ECIAL	NSTRUC	CTIONS	СОММЕ	NTS:			
8. COMPLIANCE PURPOSE:	40 = 40ml		M = Mo	onochloroad	etic Acid		16.									
Public Drinking Water: P	A SDWA Forms	Required		FHA	√Realty	/	1									
							ဖွ	440							13. Containe	er: Size / Type
PWSID#				NP	DES		Containers	AG							14. Preserva	tive
MJRA 9. Sa	ımple		10.		11.	12.		C							←	
	scription	Ī			Site	×	# of		6.67	450	Side (П	
	,0011pt.011		Date	Time	Composite	Grab Matrix	Total		Ck.						√ 15. Analyse	s Requested
11907 (0	13-95	1	130/13	1504		/ W	6	6					-		Voa Lu	75)
71000	10 6)	12012	100	\	-1-0	10	_ <u>C</u> >		\vdash					V0-0 C Q	2611
		i								i I						
or manager, and other chairs of money of the fire chair							-									
			19. RECEIV	/ED BY							ATE		TIME		Entered by	pproved by
			19. RECEN	/ED BY						1/3			TIME /5733		Entered by Comments	pproved by
				1					/	1/3	0/17	1	1533 543	>	Comments:	

	M. J. Reider Associates, Inc.		CHAIN OF	TODY REC	CORD		
	107 Angelica Street	l		e Print Legibly		R 3377	7 Page <u>3</u> of <u>4</u>
	Reading, PA 19611		(INSTRUCTIONS	ON BACK OF THIS F	FORM)		b. Report Type:
	Phone: 610-374-5129 FAX: 610-374-7	234	DISTRIBUTION: White:	Report; Yellow: Lab;	Pink: Submitter	<u> </u>	Koutine
1, Client (Company or	Individual):	Address:	5 was	shingto	m 5t		Standard QC
1 (inter	of Koadine	Scity: Roud	unc State	Dow ZIP: Yoll	ON Phone:	FAX:	Data Package
2. Invoice To: (If different	int from above)	Address:	\mathcal{C}				7. Turnaround Time
		City:	State:	ZIP:	Phone:	FAX:	Standard
3. Client Project Name	1# Priorite Polluteurts/Q	14 HOENOLY	Lab#124	-	5. Sampled By:	· .	RUSH:/
Matrix Code (for iter		Preservative A = Ascorbic Acid	Code (for item 14) T = NaS2O3		celpt Information		Shipped or Hand Delivered Method of Shipment:
DW = Drinking Water		C = HCI	E = EDTA	200 100 100 100 100 100 100 100 100 100	s received on ice?	' М . N	Tracking #:
GW = Ground Water	ll l	N = HNO3	L = NH4CI	S. C. Principality of the Control of	Containers Intact?	(A)	Cooler Pattern Facility
ww = waste Wate s = Soil	500 = 500ml P = Plastic 250 = 250ml M = Micro	S = H2SO4 P = H3PO4	Z = Zinc Acetate V = Ascorbic/HCI	STATE OF THE PARTY	Free of Headspace? eal Intact or attached	Y N 17 Y N	ICE CHEST WINDER
0 = Other_		H = NaOH	O = Other			MMENTS:	Citebred Dyx
	40 = 40ml	M = Monochic	oroacetic Acid	Compo	osite Va	MMENTS: Bottles	
8. COMPLIANCE PUI	RPOSE: king Water: PA SDWA Forms Required	<u> </u>	FHA/Realty	16.			
L I abile brill	King Water. 1 A OBWA 1 offile Required	لـــا		77		13.	Container: Size / Type
PWSID#			NPDES	OH)		<u> </u>	1
l .				E O	1 1 1	1 14.	Preservative
M IRA	9 Sample	10		31(>1	1 1		1
MJRA	9. Sample	10.	11. 12.	3 6		→	1
MJRA	9. Sample Description	Date Tim	11. 12.	# * , (*)		15.	Analyses Requested
And the second	Description O. (14)	Date Tim	Oomposite Composite 11. 12.	Total # of			Analyses Requested
And the second		Date Tim	11. 12. ne work with the state of the state	5 5		Voc	L (675)
10# ************************************	Description GC 13-944 6th 13-945	Date Tim	11. 12. 12.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Voc	~ (675) ~ (625)
10# V9@9; V9(0 U81\	Description GC 13-944 6th 13-945 FC 13-947	Date Tim 1/30/13 /0 1/30/13 /10 1/30/13 /10	11. 12. 12.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Voc Voc	~ (675) ~ (675) ~ (675)
10# ************************************	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948	Date Tim 1/30/13 10 1/30/13 10 1/30/13 13 1/30/13 132	11. 12. 12. 13. 14. 15. 16. 17. 17. 18. 19. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Voc Voc Voc	(675) -(625) -(625) al625)
10# V9@9; V9(0 U81\	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948 FC 13-949	Date Tim 1/30/13 10 1/30/13 10 1/30/13 13 1/30/13 132 1/30/13 14	11. 12. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Voc Voc Voc Voc	~ (675) ~ (675) ~ (675) ~ (675) ~ (675)
10# V9@9; V9(0 U81\	Description GC 13-944 6th 13-945 FC 13-947 RC 13-949 RC 13-950	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/3 1/30/13 1/3 1/30/13 1/4 1/30/13 1/5	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 6 6 6 6		Voc Voc Voc Vo	- (675) - (675) - (675) - (675) - (675)
10# V9@9; V9(0 U81\	Description GC 13-944 6th 13-945 FC 13-947 RC 13-949 RC 13-949 RC 13-950	Date Tim 1/30/13 10 1/30/13 10 1/30/13 13 1/30/13 132 1/30/13 14	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 6 6 6 6		Voc Voc Voc Vo	~ (675) ~ (675) ~ (675) ~ (675) ~ (675)
10# V909 V910 V910 V914 V914 V914	Description GC 13-944 6th 13-945 FC 13-947 RC 13-949 RC 13-949 RC 13-950	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/32 1/30/13 1/4 1/30/13 1/5 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 6 6 6 6		Voc Voc Voc Vo	- (675) - (675) - (675) - (675) - (675)
10# V909 V910 V910 V914 V914 V914	Description GC 13-944 6th 13-945 FC 13-947 RC 13-949 RC 13-949 RC 13-950 6th 13-951	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/3 1/30/13 1/3 1/30/13 1/5 1/30/13 1/5	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Voc Voc Voc Vo	-(675) -(675) -(675) -(675) -(675) -(675) -(675)
10# V9@9 V9(0 LIPIA	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948 FC 13-949 RC 13-950 6th 13-951 GC 13-952 6th 13-953	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/32 1/30/13 1/4 1/30/13 1/5 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DATE	VOC VOC VOC VOC VOC VOC VOC VOC VOC VOC	- (675) - (675) - (675) - (675) - (675) - (675) - (675) - (675) - (675) - (675)
10# V9@9 V910 U912 U913 V9V4 V9V5 V9V6 V9V7	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948 FC 13-949 RC 13-950 6th 13-951 GC 13-952 6th 13-953	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DATE/ //30//3	Voc Voc Voc Vo	2 (675) 2 (675) 2 (675) 2 (675) 2 (675) 3 (675) 3 (675) 3 (675) 4 (675) 5 (675) 6 (675) 6 (675) 7 (675) 7 (675) 7 (7) 4 Approved by (7) 4
10# V9@9 V9(0 LIPIA	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948 FC 13-949 RC 13-950 6th 13-951 GC 13-952 6th 13-953	Date Tim 1/30/13 1/0 1/30/13 1/0 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3 1/30/13 1/3	11. 12. 12. 13. 14. 14. 15. 16. 17. 18. 18. 19. 19. 19. 19. 19. 19	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 / /	Voc Voc Voc Voc Voc Voc Voc Voc Voc Voc	2 (675) 2 (675) 2 (675) 2 (675) 2 (675) 3 (675) 3 (675) 3 (675) 4 (675) 5 (675) 6 (675) 6 (675) 7 (675) 7 (675) 7 (7) 4 Approved by (7) 4



M.J. Reider Associates, Inc.



P.Plist Qtr

Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date of Report:

02/12/13

Lab ID:

124-13-0004899

Date Collected:

01/29/13 08:13

Collected By:

CLIENT

Date Received:

01/30/13 15:45

,,,,,,,,	,,				bate neo		,	713 13143
			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.5	mg/l	.5	10	SM 4500P-E	02/01	06:55	ALD
INORGANIC		-,				,		
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.066	mg/l	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg∕l	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.140	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:

Technical Director

Page 1 of 5







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/12/13

Lab ID:

124-13-0004899

Date Collected:

01/29/13 08:13

Collected By:

CLIENT

ample Desc: GC, 13-921 (Composite, Quarterly	Priority Pollut	ants)	ga⇔ti'		Date Rec	eived:	01/30	/30/13 15:45	
	en en		Rep.	Dilutn		Test	Test		
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst	
Pentachlorophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB	
Phenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
BASE NEUTRALS									
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB	
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB	
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Acenaphthylene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB	
Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB	
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Bis(2-Ethylhexyl) phthalate	15	ug/l	5	2	EPA 625	02/01	15:30	MEB	
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB	

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Richard Wolfe Technical Director

Page 2 of 5





M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 STORE TERM

Date of Report: 02/12/13

Lab ID:

124-13-0004899

Date Collected:

01/29/13 08:13

Collected By:

CLIENT

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
	Diethyl phthalate	 <10	 /l	 10	 1	 EPA 625		15.70	
	Dimethyl phthalate	<10	ug/l	10	1	_	02/01	15:30	MEB
	Fluoranthrene	<10	ug/l	10		EPA 625	02/01	15:30	MEB
	Fluorene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
			ug/l		1	EPA 625	02/01	15:30	MEB
	Hexachlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachloroethane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Isophorone	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Naphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Nitrobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Phenanthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
EX	TRACTION								
	EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
	EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PC	BS								
	PCB-1016	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1221	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1232	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1242	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1248	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1254	<5	ug/l	5	7	EPA 608	02/02	04:40	TWH
	PCB-1260	< 5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PE	STICIDES		٥,				, –	_	

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Tochnical Directo

Technical Director

Page 3 of 5







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date of Report:

02/12/13

Lab ID:

124-13-0004899

Date Collected:

01/29/13 08:13

Collected By:

CLIENT

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	. 5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/L	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

O1 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

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Reviewed and Approved by:

Richard Wolfe Technical Director

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004899

Date Collected: 01/29/13 08:13

Collected By:

CLIENT

Date Received:

01/30/13 15:45

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Result

Rep. Limit

Dilutn

Factor Procedure

Test Test Date

Analyst

02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Unit

- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The svoc library search tentatively identified: several Decanoic Acids, Cyclohexadecane, E-15-Heptadecenal, Squalene,(E)-9-Octadecenoic acid, Cholestanol.
- 05 For EPA 608 the matrix spike had low recoveries due to matrix interference.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin Ketone, and Toxaphene recoveries.

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: GC, 13-922 (Grab, Quarterly Priority Pollutants)

Date of Report: 02/12/13

Lab ID:

124-13-0004900

Date Collected: 01/30/13 08:08

Collected By:

CLIENT

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.044	mg/l	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	7	mg/l	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	02/01	13:00	WXC

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Technical Director

Page 1 of 1







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

02/12/13

Lab ID:

124-13-0004907

Date Collected:

01/30/13 08:08

Collected By:

CLIENT

Sample Desc: GC (13-922, 13-944, 13-952, 13-954 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

Date Received:

01/30/13 15:45

Priority Pollutants)								
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analysi
ANIC								
DLATILES								
1,1,1-Trichloroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichloroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloropropane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlorobenzene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlorobenzene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
2-Chloroethylvinyl Ether	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Acrolein	<50	ug/l	50	1	EPA 624	01/31	09:23	GXF
Acrylonitrile	<50	ug/l	50	1	EPA 624	01/31	09:23	GXF
Benzene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Bromomethane (Methyl Bromide)	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetrachloride	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Chloroethane	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Chloroform	8	ug/l	5	1	EPA 624	01/31	09:23	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
cis-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Dichlorobromomethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Library Search, Volatiles	see comment	ug/l	15	1	EPA 624	01/31	09:23	GXF
Methylene Chloride	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe

Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/12/13

Lab ID:

124-13-0004907

Date Collected:

01/30/13 08:08

Collected By:

CLIENT

Sample Desc: GC (13-922, 13-944, 13-952, 13-954 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

Date Received: 01/30/13 15:45

Test	
Time	Analyst

	Result	Unit	кер. Limit	Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and 3 unknown hydrocarbons.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe

Technical Director

Page 2 of 2





		ider Associa	ites, Inc.		***	СНА				TODY		ORD							_
	•	lica Street								rint Leg	-	0011			R	33	775	Page _	of
	Reading,					•				BACK OF								6. Report T	ype:
	Phone: 61	10-374-5129 FA	AX: 610-374-72	34			ION:			ort; Yello	i							Routine	
1. Client (Company or I	_ ^	`		Address:		<u>15</u>		N	Ja	Shi	767c	<u> </u>	<u>. ta</u>					Standard	QC
City (D+ 1	reading		City: 7	eadir	15		State: -	Pa	ZIP:	790	001	Phone:			FAX:		Data Pad	kage
t 2. Invoice To: (If differen	nt from above)			Address:		<u>ر</u>											·	7. Turnaro	und Time
(ab	#124			City:				State:		ZIP:			Phone:			FAX		Standard	l
3. Client Project Name	#: Priorit	4 Pollulant	Quester	. P.O. No.:								5. Sam	pled By:					RUSH:_	
Matrix Code (for item		Container Code	s (for item 13)	A = Ascorb	eservative Cod	le (for it				ACCRETION OF THE PARTY.		eipt info ature @	450 kg	· 医二种种性 (1921年)	(m	N_	Samples Shipped or Ha Method of Sh	ind Delivered	MMX:1
DW = Drinking Water		SIZE 2L = 2 Liter	TYPE V = VOA vial	C = HCl	IC ACIU	E = El		,		一种工程的	CANAL PROPERTY	s receiv	经工作证明	NAME OF STREET	1 5 M	36.49	Tracking #:		Walker Ch.
GW = Ground Water		L = Liter	G = Glass	N = HNO3		L = N	H4Cl				Sample	Contain	ers Inta	ct?	8) N	, Tracking #: Cooler Return	r Fee:	Brack Commence
ww = Waste Water		500 = 500ml	P = Plastic	S = H2SO4			inc Ace			2.04 2.05 2.00 3.00	ALL THE SECOND	ree of H al Intact	A STATE OF THE PARTY.	Sept. Street Sept.	* , Y	≕N.⊪	ICE CHEST N Checked by:	UMBER:	ALASTA A
S = Soil O = Other		250 = 250ml 125 = 125ml	M = Micro O = Other	P = H3PO4 H = NaOH	•	V = A: O = O		3/HCI		in a wherea to it.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
O = Other		40 = 40ml	O = Other		Monochloroa					Mote	ils:	49, AS	Be,C	9,6	۱، س	18, Pc	, Mo, NI, Sb,	Se, Ti,	21
8. COMPLIANCE PUR		A SDWA Forms	Required		Г	A/Rea	iltv		16.	1	n Ømra	oosi	ke	VOF	1 bo	Hles	•		
- Fabric Dillik	ing water. I	A SDVVA FOITIS	Required			AINGU	iity		,,		L/p		200/	1/	V/	L/	13. Containe	r: Size /	Туре
PWSID #			*******		NP	DES			iners	40	10	A	16	76	140	1/6	14. Preserva	tivo	
MJRA :	₉ Sa	mple		10		11	1	12.	Containers	5	N	#/A	S	C	C	_	14. Preserva	live	
12		•							# of			de l'action		100	\$0.55°	N. 65 (8)	П		
ID#	De	scription		Date	Time	Composite	Grab	Matrix	Total	, a								s Reques	sted
4897	(otn	13-92	2	1 29 1	3 840			33		1	1	71-20				4	Metals, Total	phosph	701002
10.	0	1,5-12	- 0	11/21/1	1010			~	-		1					1	1.25(semi-al)	1) · (()	8 (PCB+Pest)
11000	/ Jin	v2 C	. 1	130	1000		1	W				2							
4810	(oth	13-92	24	1 29	3 835	<u> </u>	X	33				2		2	5		CN(Tot + Free)	•	٠ ,
al Marine State																	Oil- Gresse (Ho	m+SGTH	EM) 624(VO)
14844	GC	13-93	1	1/29/1	3 813	X		W.		1	1		!			4	Metals, Total	1 Phosp	horis
				111111111111111111111111111111111111111						,							625 Gemi-Val		
4900	CC	13-92))	130	3 808		X	<u>~</u>	Г			っ	,	7	5		CN(Tot+ Fre	-	
	90	1,), 10	×~	1 250	2 200		1	V		 				L					` ,
							ļ		_							ļ	Oild Greaso (HA)		1), 624(Vo1)
	FC	13-9	43	1-30-1	3/1100	╵	×	W/	5	<u>X</u>			<u> </u>		5		Voa (624		
18. RELINQUISHED	BY 1			19. REC	EIVED BY	A	/	4	4				ATE/	_	TIM		Entered by:	pproved by:	oren TST <u>ates</u> hr
- In	N P				-//	the	10,	X-+	_			1/30			1535	>	Comments:	417	
					$\gamma \gamma /$		_	1	\sim				017		194	5			
The Client, by signin	g, or having clie	nt's agent sign, this	Chain of Custody F	orm, agrees t	o pay for the	bove re	equest	ed sen	vices	per the M	/JRA Pr	ice List o	r Quota	tion prov	ided incl	uding any	and all attorney fees if co	ollection becon	nes necessary.

M. J. Reider Associates, Inc. 107 Angelica Street		ΓΟDY RECORD rint Legibly	R 3388	2 1 Page of
Reading, PA 19611	(INSTRUCTIONS ON I	BACK OF THIS FORM)	n 3300	6. Report Type:
Phone: 610-374-5129 FAX: 610-374-72	234 DISTRIBUTION: White: Rep	oort; Yellow: Lab; Pink: Submitter		Routine
Client (Company or Individual):	Address: 815 Wash	nington St		Standard QC
City of Reading		ZIP: 1960 Phone:	FAX:	Data Package
2. Invoice To: of different from above)	Address:	VIV		7. Turnaround Time
	All	ZID: Phone:	FAX:	4 Standard
PILL VA	City: State:	ZIP: Phone:	FAX:	RUSH: / /
3. Client Project Name / #: Pronts tollutant (Que Matrix Code (for item 12) Centainer Codes (for item 13)	Prevervative Code (for item 14)	5. Sampled By: Sample Receipt Information	Samo	les Shipped or Hand Delivered
SIZE TYPE	A = Ascorbic Acid T = NaS2O3	Temperature @ 4C?	(9 N (2)	Method of Shipment:
DW = Drinking Water 2L = 2 Liter V = VOA vial	C = HCI E = EDTA	Samples received on ice?		Tracking #:
GW = Ground Water	N = HNO3 L = NH4Cl S = H2SO4 Z = Zinc Acetate	Sample Containers Intact? VOC's Free of Headspace?	Y	
S = Soil 250 = 250ml M = Micro	P = H3PO4 V = Ascorbic/HCI	COC Seal Intact or attached?	Υ Ν ,	Checked by:
O = Other 125 = 125ml	H = NaOH O = Other	17. SPECIAL INSTRUCTIONS/COMM	SENTS: Cr. Cu.	HS, Pb, Mo, Ni, Sb, Se, Ti, Zn
40 = 40ml 8. COMPLIANCE PURPOSE:	M = Monochloroacetic Acid			<i>5</i> , <i>1</i>
Public Drinking Water: PA SDWA Forms Required	FHA/Realty	Composite Voc	2 bottles	
PWSID#	NPDES E	1/2 1/2 1/2 1/6	1/40 1/6 2	3. Container: Size / Type
PWSID#	rtaine Sandalu			4. Preservative
MJRA 9. Sample	10. 11. 12.	SNASC	C - <	
ID# Description	posite rix al # o			
	Composi			Analyses Requested Anls, Total phosphorous
4902 Final 13-902	1/29/13/801 X 106		4 Me	trais, Total phaphorous
			/_2	5 (semi-vol) 608 (PCB+Post)
11002	1301 00		1 1 1	
4903 Final 13-920	1/36/13/810 x w 18	212		CTOTAL+ Free, Phenols,
	130113		Ove	Glitem + Sot Hem) 624(vol.
4904 Raw 13-930	1-29-13 914 x W 6	1 1	4 M.	GLITEM + Sot Hem), 624 (VOL.
Taw 10 10	1213917		1 1	5 (Semi - voi) 608 (ACB + Pest)
14905 Raw 13-929	1-30-13 905 X W 10	1 2 1 2	15 ci	OLtotal rifree) phenois,
			04	G (Hemissettem) WH (VOL)
(a)03 ¹³	1/2-1-1050 0015		5 V	
#906 FC 13-942	430/3 1050 N 4/3			00-(624)
18. RELINQUISHED BY	19. RECEIVED BY	1/30/13		Approved by: TST. hrs
deficient and a second	- 65/f//	1/30/13	1545 Com	ments:
			TOWNS N	Il attorney fees if collection becomes necessary.

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M. J. Reider Associates,	Inc.		CHAIN	OF (TOI	Y RE	CORD								. /	
107 Angelica Street	,			Pleas	e Print L	egibly				R	34	267		Page _	3 of <u>Y</u>	
Reading, PA 19611			(INSTRL	ICTIONS	ON BACK	OF THIS	FORM)		l	11	<u> </u>	201		6. Report T	ype:	
Phone: 610-374-5129 FAX: 61	0-374-7234	DIST	RIBUTION	: White:	Report; Y	ellow: Lab	Pink: Sut	omitter						Routine		
Client (Company or Individual):	Addrese:	- 815	5 5	1)(v <	n in	eto			5 1 -				Standard	QC	
1 ty of Kearling		2 - 0				IP: 19		Phone:						Dota Pag	kono	
	City:	Head	u	State:	20	IP: [[001	Pnone:			FAX:			Data Pad	kage	
2. Invoice To: (If different from above)	Address:	/												7. Turnaro	und Time	
. 0.0	, City:	(,		Ștate:	. 2	IP:		Phone:			FAX:			Standard		
3. Client Project Name / #: Delority Policy	fants/400	prterly	Lab	# 12	4		5. Sam	pled By:						RUSH:		
Matrix Code (for item 12) Confairer Codes (for it		Preservative Cod	e (for item	14)	7	ample Re	ceipt Info	rmation	in AZL	A Day				and Delivered		
		orbic Acid	T = NaS2			The State of the State of the	rature @	Section States	ole ye ja	THE SHALL SHALL SHALL	. N	$Q \subset M$	thod of Sh	ilpment:	PART CONTRACTOR	<u> </u>
	VOA vial C = HC		E = EDTA			2.00	es recelve	Section of the sectio		୍ଷ ତ	N N	Τr	acking #: _	n Fee:		
B	Glass N = HN Plastic S = H2		L = NH4C Z = Zinc A		11.0	AND THE RESERVE	e Contain Free of H	S. Combined N	and Sulfrey .		N N	ic	OIET KETUT F CHEST N	n Fee:	8145/1	
1 1	Micro P = H3I		V = Ascor		100	the Court of	eal Intact	10 To 10 To	Store and	Ϋ́	N	CH	ecked by:	معال	Surprise Sept.	
O = Other 125 = 125ml O =	Other H = Na	ЭН	O = Other		17.	SPECIAL	INSTRUC	CTIONS/	СОММЕ	NTS:						
40 = 40ml		/ = Monochloroad	etic Acid													
8. COMPLIANCE PURPOSE:	· 1		V /D		16.											
Public Drinking Water: PA SDWA Forms Requ	ired	LFH/	\/Realty		1	7	1 1					12 C	ontaine	er: Size /	Type	
PWSID #		MPI	DES		ainers			l					Oritanie	ii. Oize i	Турс	
	-		220		Containers							14. P	reserva	tive		-
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Description 4907 GC 13-954	130	Time 3 1504		Matrix	Total # of			ATE O// 7		TIME // 5/3)		Voc		25)		hrs.
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		ssociates, Inc.			CHAIN		Print L Print L	Y REC	ORD			22.	777	Page 3_ of 4
	107 Angelica Stree Reading, PA 1961				(INSTRU			of T HIS F	ORM)		R	33	111	6. Report Type:
		129 FAX: 610-374-72	34	DIST	RIBUTION	: White:	Report; Y	ellow: Lab;	Pink: Subr	mitter				i Routine
Client (Company or I		`	Address:	815	()	10.5	hir	a to	ภา	SE				Standard QC
Cile	of')	Loadine	City: Ro	Lohn		State:	5		01 P	hone:		FAX:		Data Package
2. Invoice To: (If differe	nt from above)	15	Address:		\mathcal{C}									7. Turnaround Time
	,	•	City:		······································	State:		IP:	P	Phone:		FAX:		Standard
3. Client Project Name	# Pring to	ollutounts/Qu	4 Herole	ı La	# d				5. Samp					RUSH://
Matrix Code (for iten	n 12) Contai	ner Codes (for item 13)	Prese	rvative Code	e (for item	14)	20000000	ample Rec	AND SERVICE	30 July 10 10 10 10 10 10 10 10 10 10 10 10 10			amples Shipped or H	and Delivered
DW = Drinking Water	SIZ 2L = 2		A = Ascorbic		T = NaS2			A STATE OF THE PARTY OF THE PAR	ature @ 4 s receive	d on Ice?	୍ଷ ପ	. N <u>. (</u> N	Method of Sr Tracking #:-	Action of the second
GW = Ground Water	L=Li		N = HNO3		L = NH4C			White has been a	the first warming	ers Intact?	N.) N	Cooler Retur	n Fee:
ww = Waste Water	500 = 50		S = H2SO4		Z = Zinc A			国际发布会计划 10。	A CONTRACTOR	adspace?	Y	N	ICE CHEST	WBER:
S = Soil	250 = 25	l l	P = H3PO4		V = Ascor					or attache	d?	N C	Checked by	
O = Other	125 = 12 40 = 40		H = NaOH M = M	onochloroac	O = Other etic Acid		- 17	SPECIAL	-C.T	\\	Da P	of the	مع	
8. COMPLIANCE PUR	RPOSE:		Ji				16.	ompr	ے ،ان دے	-C V		,000		
Public Drink	ing Water: PA SDWA	Forms Required		FHA	V/Realty		<u> </u>	———	· · · · · ·				13. Containe	er: Size / Type
PWSID#				NP	DES		ntainers	D						
							ontai						14. Preserva	ative
MJRA	9. Sample	•	10.		11.	12.	ع و	LES BRIEFLESC	and regulation of	Sales and Sales	wall to be a second	A Same Market		
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1 (a)	Descripti	on ,	Data	Time	de de	latı	otal		24.0%				7715 Analyse	es Requested
Y10 mg			Date	Time	Compc Grab		Total						15. Analyse	
4909	GC 13	-944	1/30/13	1049	V	W	5 5						Voce (6	75)
4909===	GC 13		1 /	1049		5.8.3.3							Voce (6	
4909	GC 13.	-944	1/30/13	1049	V	23.33	5 5						Vocal 6	75)
4909	GC 13- 6th 13 FC 13	-944 -945	1/30/13 1/30/13 1/30/13	1049 103 1319	1	3333	5 5 5 5						Vocal 6	75) 75) 75)
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4909	GC 13- 6th 13 FC 13 RC 13 RC 13 RC 13	-944 -945 -947 -948 -949 5-950	1/30/13 1/30/13 1/30/13 1/30/13 1/30/13 1/30/13	1049 103 1319 1324 1458 1505 (350		EEEEE GEEEE	5 5 5 5 5 5 5 5 6 6 6 6 5 5 5	>					Voalier Voalier Voalier Voalier Voal	25) 25) 25) 25) 25) 625) 625)
4909	GC 13- 6th 13 FC 13 FC 13 FC 13 RC 13 6th 1 GC 1	-944 -945 -947 -948 -949 5-950 3-951 3-952	1/30/13 1/30/13 1/30/13 1/30/13 1/30/13 1/30/13	1049 103 1319 1324 1458 1505 (350 1337		16 EEEEE GEGEE	5 5 5 5 5 5 6 6 6 5 5 5 6 6 6 6 6 6 6 6	,					Voalier Voalier Voalier Voalier Voal	25) 25) 25) 25) 25) 625)
4910 4910 4913 4913 4914 4915 4916 4910	GC 13- 6th 13 FC 13 FC 13 FC 13 RC 13 6th 1 6th 1	-944 -945 -947 -948 -949 5-950	1/30/13 1/30/13 1/30/13 1/30/13 1/30/13 1/30/13	1049 103 1319 1324 1458 1505 (350 1337 1453		EEEEE GEEEE	5 5 5 5 5 5 5 5 6 6 6 6 5 5 5	,					Voalier Voalier Voalier Voalier Voalier Voalier Voalier Voalier	25) 25) 25) 25) 25) 625) 625) 625)
4910 4910 4913 4913 4914 4915 4916 4910	GC 13- 6th 13 FC 13 FC 13 FC 13 RC 13 6th 1 6th 1	-944 -945 -947 -948 -949 5-950 3-951 3-952	1/30/13 1/30/13 1/30/13 1/30/13 1/30/13 1/30/13	1049 103 1319 1324 1458 1505 (350 1337		16 EEEEE GEGEE	5 5 5 5 5 5 6 6 6 5 5 5 6 6 6 6 6 6 6 6	,	17	TE/	TIM	E	Voca (b) Voca (b) Voca (b) Voca (c) Voc	25) 25) 25) 25) 25) 625) 625)
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Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



P.P 1st atr

Date of Report: 02/12/13

Lab ID:

124-13-0004902

Date Collected:

01/29/13 08:01

Collected By:

CLIENT

Sample Desc: Final, 13-902 (Composite,	Quarterly Priority	Pollutants)			Date Rece	eived:	01/3	0/13 15:4
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	2.72	mg/L	.25	5	SM 4500P-E	02/01	06:55	ALD
INORGANIC		٠,				,		
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.002	mg/L	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.014	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	•	13:29	
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	•	14:58	JXS
Molybdenum, Total	0.01	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.008	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.056	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC						•		
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB

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Reviewed and Approved by

Richard Wolfe Technical Director

Page 1 of 5

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ACIL Seal of Excellence



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004902

Date Collected: 01/29/13 08:01

Collected By: CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
	Pentachlorophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
	Phenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
BAS	E NEUTRALS		-,				,		
	1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
	2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
	3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4.	Acenaphthylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
	Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Ethylhexyl) phthalate	8	ug/l	5	2	EPA 625	02/01	15:30	MEB
	Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
	Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB

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Technical Director

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ACIL Seal of Excellence



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004902

Date Collected:

01/29/13 08:01

Collected By:

CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
	Diethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Dimethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Fluoranthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Fluorene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachloroethane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
	Isophorone	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
h,	Naphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Nitrobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Phenanthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
EXT	TRACTION						·		
	EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
	EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCE	3\$						·		
	PCB-1016	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1221	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1232	<5	ug/l	5	1	EPA 608	02/02	04:40	T₩H
	PCB-1242	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1248	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1254	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1260	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe Technical Director

Page 3 of 5







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004902

Date Collected:

01/29/13 08:01

Collected By:

CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	T₩H
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

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Reviewed and Approved by:

Technical Director

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Date Collected: 01/29/13 08:01

Collected By:

CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received:

Procedure

01/30/13 15:45

Unit

Dilutn Factor

Limit

Date Time Analyst

02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Result

- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The semi-volatile organic compound library search did not detect any compounds above the concentration of the internal standards.
- 05 The epa 625 method matrix spike was low for several compounds indicating possible sample matrix interference.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

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Date of Report:

02/12/13 Lab ID:

124-13-0004903

Date Collected:

01/30/13 08:10

Collected By:

CLIENT

Sample Desc: Final, 13-920 (Grab, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

	Result	Unit 	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001x	01/31	15:46	JCL
Phenols (4AAP)	0.042	mg/L	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	< 5	mg/L	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	02/01	13:00	WXC

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Řichard Wolfe

Technical Director

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Attention: Amy L. Morriss

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c/o City Hall 815 Washington St. Reading PA 19601

02/12/13 Date of Report:

Lab ID:

124-13-0004901

Date Collected: 01/30/13 08:10

Collected By:

CLIENT

Sample Desc: FC (13-920, 13-942, 13-947, 13-949 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

01/30/13 15:45 Date Received:

Prior	'ity Pollutants)								
				Rep.	Dilutn		Test	Test	
		Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
ORGANIC									
VOLATILES									
1,1,1-Tricht	oroethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	achloroethane	<5 <5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichl		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichlord		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichlord		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	benzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloro		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlord		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlord		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlord		<5	ug/l	5	1	EPA 624	,	09:23	GXF
•	lvinyl Ether	<5	ug/l ug/l	5	1	EPA 624	01/31	09:23	GXF
Acrolein	tvinyt Ether	<50		50	1	EPA 624	01/31		
March 1		<50	ug/l	50	1		01/31	09:23	GXF
Acrylonitril	e		ug/l		1	EPA 624	01/31	09:23	GXF
Benzene	to the same Alexanda	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	ribromomethane)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	(Methyl Bromide)	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetra		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	e (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorodibrom		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Chloroethane		<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Chloroform		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
	e (Methyl Chloride)	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
•	loroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
•	loropropylene	< 5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Dichlorobrom		<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene		< 5	ug/l	5	1	EPA 624	01/31	09:23	GXF
•	ch, Volatiles	see comment	ug/l	15	1	EPA 624	01/31	09:23	GXF
Methylene Ch	loride	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

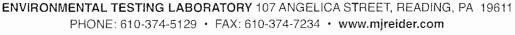
Distribution of Reports:

Reviewed and Approved by:

Technical Director

Page 1 of 2









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Date of Report: 02/12/13

Lab ID:

124-13-0004901

Date Collected:

01/30/13 08:10

Collected By:

Date Received:

CLIENT

01/30/13 15:45

Sample Desc: FC (13-920, 13-942, 13-947, 13-949 - Lab Composite of 4 Grabs, Quarterly Priority Pollutants)

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
Tetrachloroethylene	< 5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

The volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

Distribution of Reports:

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Technical Director

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M. J. F	Reider Associa	ites. Inc.			CHAI	N OF	Č	TODY	/ REC	ORD							
	gelica Street		ļ				1	rint Leg					R	33	775	7	Page of
Reading	g, PA 19611				(INSTI	RUCTION	IS ON	BACK O	F THIS F	FORM)			11		110	J	6. Report Type:
Phone:	610-374-5129 FA	X: 610-374-72	234	DIST	RIBUTIO	ON: Whit	te: Rep	port; Yello	w: Lab;	Pink: Sut	omitter						Routine
1. Client (Company or Individual):	2		Address:	8	15		Na	Shi	ret	ons	<u>. tz</u>						Standard QC
City of	Keading		city: Re	adi o	15	State	PC	ZIP	79	601	Phone:		-	FAX			Data Package
2. Invoice To: (If different from above),		Address:)												7. Turnaround Time
Lab#121	+		City:			State	9:	ZIP	:		Phone:			FAX			Standard
3. Client Project Name / #: Prior	ity Pollulant	Quarte	4. P.O. No.:							5 . Sam	pled By	:					RUSH:/
Matrix Code (for item 12)	Container Code		Prese	rvative Cod		-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of mon-secondaries	celpt Info	5. 2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ni 🖟 🦮		Sept. S			nd Delivered 14
	SIZE	TYPE	A = Ascorbic	Acid	T = NaS			100	at the students to be	rature @	(1) (2) (4) (4) (5) (6)	No. 7. In Contract of the Cont		N_			pment:
DW = Drinking Water GW = Ground Water	2L = 2 Liter L = Liter	V = VOA vial G = Glass	C = HCI N = HNO3		E = ED			100	企业50%的企业	s receive Contain	一面用数据使性的数	MARKET STATE	$ \mathfrak{D}$	N א (Fee:
ww = Waste Water	500 = 500ml	P = Plastic	S = H2SO4			Acetate		7. V. S. 13.52	Santa Alberta	Free of H	No. of Carlot	Sabri see 250	Y	N.	, ice	CHEST NU	JMBER:
S = Soil	250 = 250ml	M = Micro	P = H3PO4			orbic/HC	ı	10 miles (10 miles)	to the second second	eal Intact	THE SHARE WAS	344 W. 18 32 3	Y	N	Che	cked by:	Q(1) = ==================================
O = Other	= Other 125 = 125ml O = Other				O = Oth	ner		17. SI	PECIAL	INSTRUC	CTIONS	/COMME					Se, Ti, Zn
	40 = 40ml		M = M	onochloroad	etic Acid	······	T			-						120,2	se, 11, 01
8. COMPLIANCE PURPOSE: Public Drinking Water:	DA SDIMA Forms	Dequired		FH.	\/Realt	.,	16.	1 6	a man	posi	te	VO	a bo	Hles	,		
Public Drinking Water.	PA SDWA FUIIIS	Required		L	vreau	у	1	3 2			12/	15 /	111	. /	13. Co	ntaine	r: Size / Type
PWSID#				NP	DES		tainers	1/0	1/0	500/	50%	1/6	40	1/6	(====================================		
							ntair	9		#/^	^=		^		14. Pre	eservat	tive
g MJRA s g . S	ample		10.		11.	12.	၂ပို	V	N	``/A	<u>S</u>	<u>_</u>					
* ID# _ 2 D	escription				oosite	ž	0 # 0	17		I de la composition della comp	757				П		
			Date	Time	Comp	Grab Matrix	Total				数数	1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A			15. AI	nalyses	s Requested
4897 (oth	13-92	3	1 29 13	840	X	12		1	1					4	Metals,	Total	phosphorous
															(25/5c	mi -Vz'	1); 608 (PCB+Pest)
4898 / th	13-97	4	1 29 13	835	,	XW	,	1		2		2	5				Phenois
	12 16		12311	1000		<u> </u>	+	-					<i>J</i>		i		,
1899		1	1.1 \	612				-	-	-				. 1			n+SGTHEM) 624(VO)
1899 GC	13-92	! !	112913	813	X	V/~	4	1	1					4	1		Phosphoeus
			301				ļ	<u> </u>		<u> </u>					625 (Sen	11-101); 608 (PCB + Pest)
4900 GC	13-93	<u> </u>	124 13	808		XX				2		2	5		CN(To	++ Fra	e), Phenols,
			, 22.0 7/35/1	1100			ļ.	1									485THEM), 624(VOI)
4901 FC	4901 FC 13-943					¥ 3	15						5		Voa.		
18. RELINQUISHED BY	100 Earl (110 Ea						//			D/	ATE/		TIM	E .	Entered by:	(A) PAP	pproved by:
C/m t	7		19. RECEI	7	1	D	\angle				2/12		535		Comments: s	A. C. C. M. M. SEC. S. C. C. C. C. C. C. C. C. C. C. C. C. C.	

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

M. J. Reid	ler Associates, Inc.	ŀ		CHA	IN O)F {	FTOD	Y REC	ORD							
107 Angelica		i			F	Please	Print Le	egibly				R	33	881	Page of	
Reading, PA	19611			(INST	RUCT	IONS OI	N BACK (OF THIS F	ORM)						6. Report Type:	
Phone: 610-	374-5129 FAX: 610-374-72	234	DIST	RIBUTIO	ON: \	White: Re	eport; Yel	llow: Lab;	Pink: Sul	omitter				1	Routine	-
Client (Company or Individual):		Address:	81	5	u	Dows	hin	910	Υ)	St	C.	2	20 (M.	Standard QC	
City of Ri	eading	City: 13						J. 191			•	, v	FAX	M	Data Package	
)	zacinic	1)6	(CXIX.	\mathcal{C}'				<u> </u>	<u> </u>			ig	177	. 2		
2. Invoice To∺(fi different from above)		Address: *) A	<u> </u>	7. Turnaround Time	
		City:				State:	ZII	P:		Phone:			FAX		Standard	
3. Client Project Name / #: Prion	te Vollutant/Qu	certandy	, Levo	the	<u> 4</u>	,			5. Sam	pled By:			4		RUSH://	
Matrix Code (for item 12)	Container Codes (for item 13)	Previe	ervative Cod	e (for ite			Sa	mple Rec		Book of Come The	1	b	3	Samples Shipped or Ha	and Delivered	
DW - Dipking Water	SIZE TYPE 2L = 2 Liter V = VOA vial	A = Ascorbic C = HCl	Acid	T = Na: E = ED				Temper	ature @ s receiv	STATE OF THE STATE	e?	ି (ଚ (ଚ	STANGEL CHAIL		ipment:	
DW = Drinking Water GW = Ground Water	L = Liter G = Glass	N = HNO3		L = NH				建国际经验,对"成	Contair	2 100 200	10 May 18 18	(A)	N.	Cooler Return	n Fee:	
¥	500 = 500ml P = Plastic	S = H2SO4		Z = Zin		tate		W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ree of H	全国的 中国的	The second	Ϋ́Υ	V N ≕	ICE CHEST N	IUMBER:	
	250 = 250ml M = Micro	P = H3PO4		V = Asi	corbic	/HCI		COC Se	al Intaci	or attac	ched?	Ý	N	Checked by:	WEEK:	
O = Other1	125 = 1 25ml O = Other	H = NaOH		O = Ot	her		17. 8	SPECIAL I	NSTRU	CTIONS	сомм	ENTS:	^ /	0. 4. Ph M	10 Ni Sb. Se. Ti.	\overline{z}_r
	40 = 40ml	M = M	onochloroad	etic Acid	d		m	etal	5 F	15,145	ال رة لكارة	المنكرة	Cr)	10, 115, 10, "	no, Ni, Sb, Se, T.,	
8. COMPLIANCE PURPOSE:	CDIMA Forms Dequired			4/Realf	h.,	16		om,								
Public Drinking Water: PA	SDWA Forms Required			-//Rean	ıy				2001	(<u>`</u> &`	111	177	1./	13. Containe	er: Size / Type	
PWSID#			NPI	DES		Sec	I /P	170	10	6	16	140	76	←	,	
						onfainers			14/	(^	C		14. Preserva	ntive	
MJRA 9. Sam	ple	10.		11.		12.		177	/A	S	<u></u>	<u></u>				
ID# Desc	cription			osite			: 1			14.50				П		
	•	Date	Time	Сотроѕіте	Grab	Matrix Total #								∜₁₅. Analyse	s Requested	
4902 Final	13-902	Ilan 1	SYNI	X	,	100	,						4	Metrals, To	s Requested tal.phosphorous	
19900 Final	12-902	1/29/13	801	^	-	w 6	2 1						1	(/ / /	
		200			_	.,								625 (Sem; -	vol) 608 (ACB+Pes	it,
14903 [0,0)	13-920	130/13	810		× \	w H	ź		2	١	2	135 JAIT	1	CULTOTAL.	Free), Phenols,	
		13011	7		-	4.	24			F	_	TIAL				<u>,)</u>
	12 005		- il		- 1	<u>, , , , , , , , , , , , , , , , , , , </u>						 	. 1	Matak Tota	Sot Hem) 624(Va + Conosphorous	
14904 Rau	13-930	1-29-13	917	X		W 6	1	1					4	memaj ren		
		,	'											625 (Semi ~)	id) 608 LACBOPE	it_)
4905 Ray	2 12 020		OK			WIC		-						- i i i i	n) al culo	
17702 Kan	2 13-929	1-30-13	700		×	WIC	2		2		2	5		CULTOTALY	rec) phenels,	\
(a) 2/13	`							1						OAC CHEMA	Soft Hem) 624(10	L)
LICAGO EC	13942	1/30/13	1050		N	4	3						5	You (6	2.1)	
18. RELINQUISHED BY	10110	19. RECEI	VED BY	L	7	7/1			Lo	ATH		TIMI		THE RESERVE OF THE PERSON OF T	있다) pproved by: ***********************************	e h re
IV. INCLINACIONED DI		IV. KLOEF	7/	7 [L	1	/			1/3	0/13		23	5	1・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		
		ļ	de	1/	-/				<u> </u>			54		Comments:		
			-/-//	/	/	1		• • • • • • • • • • • • • • • • • • • •		0/13			7			71-1
The Client, by signing, or having client's	agent sign, this Chain of Custody I	Form, agrees to p	ay for the a	bove red	queste	d service	es per the	MJRA Pri	ice List o	r Quotat	ion prov	ided incli	uding any	and all attorney fees if co	offection becomes necessary.	

M. J. Reider Associates, Inc.				CHA	VIN (OF 🤄	1	TOD	REC	ORD						1	
107 Angelica Street						Pleas	se P	rint Le	gibly				R	34	1267	Page of	
Reading, PA 19611		l		(INS	TRUC	TIONS	ON	BACK O	F THIS	FORM)				<u>~</u>	1201	6. Report Type:	
Phone: 610-374-5129 FAX: 610-374-72	234		DIST	RIBUT	ION:	White:	: Rep	ort; Yell	ow: Lab;	Pink: Su	bmitter	- F	425			Routine	
1. Client (Company or Individual):	Addrese:		815	5	1	()	N ₁	sh	in	1	1	المثنة	St	Ç	Å	Standard QC	
Koadin	City:	7	- c1			State:		\ -	19	~ J. 1	Phone:		*	آ FAX دو	2	Data Package	
		1/6	C C	حد	7	State.	1-1	211		001	rnone.		2	.₩° FAA	M	Data Fackage	
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3. Client Project Name /#: Dorty Poll Vants	4.40	No.r-L	erly	La	b±	1/2	4			5. San	npled By	:	PUBLIC WUST	E .		RUSH://_	
Matrix Code (for item 12) Confainer Codes (for item 13)	1		vative Cod					Sai		ceipt inf		n (j			Samples Shipped or Ha	and Delivered	
SIZE TYPE	A = Asc C = HC	corbic A	cid	T=N E=E	aS2O	3			Acoust Charles	rature @ os receiv	120010000000000000000000000000000000000	•	. W	N N	Method of Sh	Ipment:	**************************************
GW = Ground Water L = Liter G = Glass	N = HN			L=N				1	40年20年20年1	Contail	Service States	3. 中美国共和国	· Ø		Cooler Return	n Fee:	
WW = Waste Water 500 = 500ml P = Plastic	S = H2	SO4		Z = Zi	inc Ace	etate			Salar English	Free of I	wat Shipping	te also for control	Υ."	Ň	CE CHEST N	MBER:	
S = Soil 250 = 250ml M = Micro	P = H3			V = A	scorbi	c/HCI		1976	cocs	eal Intac	t or atta	ched?	* . Y		Checked by:	DCD 1	
O = Other	H = Na		b-1	O = C				<u>17. S</u> l	PECIAL	INSTRU	CTIONS	/COMMI	NTS:				
8. COMPLIANCE PURPOSE:		M = Mor	nochloroad	etic Ac	id .		16.	•									
Public Drinking Water: PA SDWA Forms Required		Γ	FHA	\/Rea	lty												
		_				- 1	ş	1/4C							13. Containe	er: Size / Type	
PWSID#		L	NPI	DES			ntainers	AU							14. Preserva	fivo	
MJRA 9. Sample	Т	10.		11	1.	12.	Cont	C							(===	uve	
				site			# of			高	16.77		Track.	NATA AU	П		
Description	Dat	.	Time	юфшо	Grab	Matrix	Total			en en en					↓ 15. Analyse	e Ranuaetad	
	1 6	-+		0	9		<u>-</u>	See Address	新沙斯斯斯	ARREST A	4800000	Total Section 1	GOTO CONTROL				
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18. RELINQUISHED BY	19. R	ECEIVE	D BY	_/		///	/	7		d,	ATE/		TIMI	E	Entered by	pproved by:	nrs hrs
				Z	11			/		1/3	0/12		153	5	Comments:		
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	_			//	L		(1/2	din		TU:	5			45
The Client, by signing, or having client's agent sign, this Chain of Custody F	Form, agree	es to pay	y for the at	oove re	queste	ed serv	rices	per the !	JRA Pr		o 13 or Quotat	ion provi	543 ded inclu	5		llection becomes necessary.	

	M. J. Re	eider Associa	ites, Inc.			СНА	IN C)F (- Apply	TODY	REC	ORD						7			1
	_	lica Street								int Leg					R	337	77			3_ of _\	
		PA 19611				•				BACK OF		,		l				1	6. Report		
	Phone: 6	10-374-5129 FA	AX: 610-374-72	34	DIS	,			-			Pink: Sut	bmitter	<u></u>	E.		m	.	Routine		
1. Client (Company or I	ndividual):		\ ,	Address:	RE	7	-		2 —	in			5	て		3			Standar	d QC	
(lite	0 f	Kpa	ding	City:	andia	25		State:	<i>ک</i> ړ.	ZIP:	796	01	Phone:		(FAX:	AECEN		Data Pa	ckage	
2. Invoice To: (If differe	nt from above)			Address:		\mathcal{L}										PUBLIE MOR	M	<u></u>	7. Turnard	ound Time	
		_		City:				State:		ZIP:			Phone:			FAX;	5		Standar	d	:
3. Client Project Name	1#: P-10K	ite Pollut	conts/Qu	4-P1-02-NO	ly L	و ط	#1	24				5 . Sam	pled By:			NOS.			RUSH:	/	
Matrix Code (for iten		Container Code SIZE			reservative Co		em 14) aS2O3			With the Control	Control of Marine	eipt Info ature @	ormation	12.	arrant.	¥	pples Shipp	ed or Ha	ind Delivered Ipment:		
DW = Drinking Water		2L = 2 Liter	V = VOA vial	C = HCl	Die Aoid	E = El					Sample	s receive	ed on ic		8	и <u>(</u> и	Traci	king #: 🚣		AND THE	
GW = Ground Water		L = Liter	G = Glass	N = HNO		L = NI				10.52/10.0050.00200	SW. SERVICE CONTROL OF	PARTE DISTRICT	ners Inta	网络自由的外部 		N	Cool	er Returr	1 Fee: <u>* * * * * * * * * * * * * * * * * * *</u>	and and the second	Jan G
ww = waste Water S = Soil		500 ≈ 500ml 250 = 250ml	P = Plastic M = Micro	S = H2SC P = H3PC			nc Ace scorbic						leadspa t or attac			N N	ICE (ked by	MBER:	No.	
O = Other		125 = 125ml	O = Other	H = NaOl		0=0			_									The same of the sa			e consider de manuel de l'Alle de l'Alle
		40 = 40ml		ll .	= Monochloroa					(0	moe	<u>-55:7</u>	to 1	Voa	- B	attle	20				
8. COMPLIANCE PUR		A SDWA Forms	Required		III EH	IA/Rea	ltv	1	16.		1			-			·				
LPublic Drink	ang water. P	A SDWA FOIMS	Nequired		ا"الــــا	rvitea	ity		. \	7/							13. Co	ntaine	r: Size /	Туре	
PWSID#					NF	DES			ainers	140						<	14. Pre	COM/C	tivo		
- MJRA	9 Sa	mple		1 1	0.	11	ï. T	12.	Cont	C						<	14. PIE	ssei va	uve		
ID#		escription				site a	-		# of	33	The said	interior			3.7	i to-certa	П				
10#	De	Scription		Date	Time	Сотро	Grab	Matrix	Total							,	15. A r	alyse	s Reque	sted	
4909	GC	13-94	14	1/30/1	3 1049				5	5						V	100c (67	5)		
4910	10th	13-94		1/30/1	- 	 	ممخف	12	5	5							Voa	162			
1/4/1	FC	13-94		1301			6	4 1	5	5							100	,	75)		
	00	13-94		1-1-1			1/	W)	\neg										^		· · · · · · · · · · · · · · · · · · ·
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3 4413	1-C	13-94		130/1					6	6							Voc	-	075 X)	
4914	RC	13-95	50	1/20/1					6	6							Voc	-(1	625)	
4915	64	13-9	751	1/36/	(3/350	·	V	2	5	5							Voc	<u>-(</u>	075))	
4916	GC		152	1/30/	1		/	w 6	5	3							Voa	,	e 25)		
= 49117	10th		953	1 /	3 1453	,	N	1. 7	6	6,	1						Voc	,	625)		
18. RELINOVISHED	βY		, <u> </u>		CEIVED BY	11	/	1				ŋ/	ÁTE,		TIME	E				PARTIES T	ST <u></u> hrs
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T	a or baying clip	nt's agent sign, this (Chain of Custody F	orm, agrees	to pay for the	above re	equeste	ed servi	ces p	per the N	/JRA Pri				· · · ·	ding any an	d all attorney	fees if co	llection become	meş necessa	ry.



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date of Report: 02/12/13

Lab ID:

124-13-0004904

Date Collected:

01/29/13 09:14

Collected By:

CLIENT

Date Received:

01/30/13 15:45

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
CHEMISTRY						-		
COLORMETRIC								
Phosphorus as P, Total	7.2	mg/l	.5	10	SM 4500P-E	02/01	06:55	ALD
NORGANIC		3,				,		
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.002	mg/L	.001	1	EPA 200.8	02/01	12:47	
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.014	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.052	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0002	mg/L	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	0.02	mg/l	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.020	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/l	.002	1	EPA 200.9	02/05	16:00	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.188	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
RGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe Technical Director

Page 1 of 5









M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date of Report: 02/12/13

Lab ID:

124-13-0004904

Date Collected: 01/29/13 09:14

Collected By:

CLIENT

Date Received:

01/30/13 15:45

		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analys
	Pentachlorophenol	<50	ug/l	 50	1	EPA 625	02/01	15:30	MEB
	Phenol	<10	ug/l ug/l	10	1	EPA 625	02/01	15:30	MEB
D A G	SE NEUTRALS	110	ug/ t	10		EFA OZJ	02/01	15.50	MED
טאי	1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l ug/l	40	1	EPA 625	02/01	15:30	MEB
	2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	3,3'-Dichlorobenzidine	<20	ug/l ug/l	20	1	EPA 625	02/01	15:30	MEB
	3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Acenaphthylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
	Benzo(a)anthracene	<10	ug/l ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Benzo(k)fluoranthene	<10	ug/l ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	2	EPA 625	02/01	15:30	MEB
	Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date of Report: 02/12/13

Lab ID:

124-13-0004904

Date Collected: 01/29/13 09:14

Collected By:

CLIENT

Date Received:

01/30/13 15:45

	, , , , , , , , , , , , , , , , , , ,	10/19/11/01/12/1000	2 (4.160)			Date Rec	civea.	01/50	7/13 13.43
				Rep.	Dilutn		Test	Test	
		Result	Unit 	Limit 	Factor	Procedure	Date 	Time	Analyst
	Diethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Dimethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Fluoranthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Fluorene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Hexachloroethane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Isophorone	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
April 1 mg	Naphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Nitrobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Phenanthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
	Pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
EXT	RACTION								
	EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
	EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCE	IS .								
	PCB-1016	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1221	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1232	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1242	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1248	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1254	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
	PCB-1260	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PES	TICIDES								

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date of Report:

02/12/13

Lab ID:

124-13-0004904

Date Collected:

01/29/13 09:14

Collected By:

CLIENT

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	T₩H
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

Distribution of Reports:

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004904

Date Collected:

01/29/13 09:14

Collected By:

CLIENT

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Result

Date Received:

Procedure

01/30/13 15:45

Rep. Limit Dilutn Factor

Test

Date

Test

Time

Analyst

02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Unit

- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The svoc library search tentatively identified: 2-Butoxy-Ethanol, several Decanoic Acids, Cyclohexadecane, two Decenoic acids, E-15-Heptadecenal, Cholestanol.
- The svoc library also tentatively identified: 17-(1,5-Dimethylhexyl)-10,13-dimethyl, 2,6,10,14,18,22-Tetracosahexaene, (Z,Z)-9,12-Octadecadienoic Acid.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

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Reviewed and Approved by:

Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

Lab ID:

124-13-0004905

Date Collected:

01/30/13 09:05

02/12/13

Collected By:

CLIENT

Sample Desc: Raw, 13-929 (Grab, Quarterly Priority Pollutants)

Date Received:

01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.151	mg/l	. 01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	14	mg/l	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	02/01	13:00	WXC

Distribution of Reports:

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Richard Wolfe

Technical Director

Page 1 of 1







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004912

Date Received:

Date Collected: 01/30/13 09:05

01/30/13 15:45

Collected By: CLIENT

Sample Desc: RC (13-929, 13-948, 13-950, 13-943 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

		Rep.	Dilutn		Test	Test	
Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624		09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<50	ug/l	50	1	EPA 624	01/31	09:23	GXF
<50	ug/l	50	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
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Richard Wolfe Technical Director

Reviewed and Approved by

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ACIL Seal of Excellence



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report: 02/12/13

Lab ID:

124-13-0004912

Collected By:

Date Collected:

01/30/13 09:05

CLIENT

Sample Desc: RC (13-929, 13-948, 13-950, 13-943 - Lab Composite of 4 Grabs, Quarterly

Priority Pollutants)

Date Received:

01/30/13 15:45

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Toluene	6	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	< 5	ug/l	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and 5 unknown hydrocarbons.

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Technical Director

Page 2 of 2





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107 Angelica Street	ŀ		Please Print Legibly (INSTRUCTIONS ON BACK OF THIS FORM)							3775	Page of					
Reading, PA 19611	Į			•												6. Report Type:
Phone: 610-374-5129 FAX: 610-374-72	234		-		ION:			ort; Yello								Routine
1. Client (Company or Individual):	Address:			15				Shi				· <u></u>				Standard QC
City of heading	City:	300	udi r	15		Stale:	Pa	ZIP:	791	001	Phone:			FAX		Data Package
2. Invoice To: (If different from above)	Address:	,														7. Turnaround Time
Lab#124	City:					State:		ZIP:			Phone:			FAX		Standard
3. Client Project Name / #: Priority Pollulant / Quartu	/ P.O. N	No.:								5. Sam	pled By:					RUSH:/
Matrix Code (for item 12) Container Codes (for item 13) SIZE TYPE	/		ative Cod	e (for ite T = Na				100 C 100 Sept 105 T	Contraction and the second second	Land Marie Course	ormatio	STATE OF THE PARTY	· (~	KN	Samples Shipped or Ha	and Dellyered. Ipment:
DW = Drinking Water 2L = 2 Liter V = VOA vial	C = HCI			E = EC			- 1	152.43	San San Line	(A) (A)	ed on ic	Mary Control	Charles of the latest	鄉鄉鄉鄉往往往	Tracking #:	
GW = Ground Water L = Liter G = Glass	N = HNO			L = NH			- 1	Apr. (C. 30%)	15 34 N. 3	Out of the same	ners Inta	10.00	S.	N N N	Cooler Return	n Fee:
WW = Waste Water 500 = 500ml P = Plastic S = Soil 250 = 250ml M = Micro	S = H2S P = H3F			Z = Zir V = As			ļ	100	outself to the state of	25 () L. C. C. C. C. C. C. C. C. C. C. C. C. C.	leadspa t or atta	Tolowine and	Y Y	N N	Checked by:	UMBER:
O = Other 125 = 125ml	H = NaC			0 = 0			_									
40 = 40ml		M = Mond	ochloroad	etic Aci	id					_					, Mo, NI, Sb,	Se, 11,21
COMPLIANCE PURPOSE: Public Drinking Water: PA SDWA Forms Required		Г	FHA	\/Real	lty		16.		om	posi	ke	VO	y bo	Hie	S	
			— —				ſs	4/0	2/2	500/	500/	4	V	46	13. Containe	r: Size / Type
PWSID #		L	NPI	DES			ntainers			A)	16	76	140	70	14. Preserva	tive
							5	S	N	47/A	Q	1	1 C			
⇒ MJRA 9. Sample		10.		11	١.	12.	<u>ي</u> ا	U	, -	/14	<u> </u>				7	
9. Sample D# Description			Time	posite			# of	U		<u>/m</u>	<u>ل</u>			(II) (A.)	Analyse:	s Requested
.ID#₃ Description	Date	e	Time	Composite	Grab	Matrix	Total # of C	U		<u> </u> #				L	V15. Analyse	s Requested
		e	Time 840	posite	Grab	Matrix	# of			JA				4	Metals, Total	phosphorous
Description 4897 (o th 13-923	Date 1 29	e 15	840	Composite	Grab	SE Matrix	# of							<u>+</u>	Metals, Total	s Requested 1 phosphorous 1); (OS (PCB+Pest)
.ID#₃ Description	Date 1 29	e 15		Composite	Grab	Matrix	# of			2		2	5	4	Metals, Talal (25 (Semi-Va CN(Tot+Tree)	1 phosphorous 1); 608 (PCB+Pest) 1, Phenols
Description 4897 (o th 13-923	Date 1 29	e 15	840	Composite	Grab	SE Matrix	# of	1		2		2		4	Metals, Talal (25 (Semi-Va CN(Tot+Tree)	1 phosphorous 1); 608 (PCB+Pest) 1, Phenols
Description 4897 (o th 13-923	Date 1 29	13	840	Composite	X	SE Matrix	# of			2		2			Metals, Total (25 (Semi-Va CN(Tot+Tree) Oil-Gressel Ha	phosphorous i); 608 (PCB+Pest) , Phenols in+ScTHEM, 624(Vol)
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921	Date 1 29	13	840 835 813	X Composite	X	\$\$ Matrix	# of		1	2		2			Metals, Total (25(Semi-Va CN(Tot+Free) Oil-Gressel Ha Metals, Total	phosphorous 1); 608 (PCB+Pest) 2, Phenols 1, Phenols 1, Phosphorous
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921	Date 1 29	13	840 835 813	X Composite	X	£	# of	1	 	2		2	5		Metals, Total (25 (Semi-Va CN(Tot+Free) Oil-Gressel Ha Metals, Total (25 (Semi-Voi	phosphorous 1); 608 (PCB+Pest) 2, Phenols 1, Phenols 1, Phosphorous 1); 608 (PCB+Pest)
Description 4897 (oth 13-923 4898 (oth 13-924	Date 1 29	13	840 835 813	X Composite	X	\$\$ Matrix	# of	1	l	2					Metals, Total (25 (Semi-Va CN(Tot+Free) Oil-Gressel Ha Metals, Total (25 (Semi-Voi CN (Tot+Free)	phosphorous 1); 608 (PCB+Pest) 2, Phenols 1, Phosphorous 1 Phosphorous 2); 608 (PCB+Pest) 2), Phenols,
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921	Date 1 29 1 29 1 29 1 29 1 29	13	840 835 813	X Composite	<i>X X</i>	£	# of	1	1	2			5		Metals, Total (25 Gemi-ve CN(Tot+Free) Oilu Gresselthe Metals, Total (25 Gemi-voi CN(Tot+Free) Oilu Gresselthe	1 phosphorous 1); 608 (PCB+Pest) 1, Phenols 1, Phosphorous 1 Phosphorous 1; 608 (PCB+Pest) 2); 608 (PCB+Pest) 2), Phenols, 1, 45THEM), 624 (Vol)
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921	1 29 1 29 1 29 1 29 1 29	13	840 835 813 808	X Composite	Х Х	& E & E Matrix	# of	1	1		ATE/		5	4	Metals, Total (25 (Semi-Ve CN(Tot + Free) Oil + Gressel Ha Metals, Total (25 (Semi-Voi) CN(Tot + Free Oil + Gressel Ha Voa (624	phosphorous 1); 608 (PCB+Pest) 2, Phenols 1, Phosphorous 1 Phosphorous 1); 608 (PCB+Pest) 2), Phenols, 1, Phenols,
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921 4900 GC 13-922 4901 FC 13-943	1 29 1 29 1 29 1 29 1 29	13	840 835 813 808	X Composite	<i>X X</i>	& E & E Matrix	# of	1	1		ATE/		<i>5 5 5</i>	4	Metals, Total (25 (Semi-Ve CN(Tot+Free) Oil+Gresse(Har) Metals, Total (25 (Semi-Voi CN(Tot+Free) Oil+Gresso(HAR) Voa (624) Entered by: 6 A	1 phosphorous 1); 608 (PCB+Pest) 1, Phenols 1, Phosphorous 1 Phosphorous 1; 608 (PCB+Pest) 2); 608 (PCB+Pest) 2), Phenols, 1, 45THEM), 624 (Vol)
Description 4897 (oth 13-923 4898 (oth 13-924 4899 GC 13-921 4900 GC 13-922 4900 FC 13-943	1 29 1 29 1 29 1 29 1 29	13	840 835 813 808	X Composite	<i>X X</i>	& E & E Matrix	# of	1		1/30	ATE/ 2//3	2	5 5	4	Metals, Total (25 (Semi-Ve CN(Tot + Free) Oil + Gressel Ha Metals, Total (25 (Semi-Voi) CN(Tot + Free Oil + Gressel Ha Voa (624	phosphorous 1); 608 (PCB+Pest) 2, Phenols 1, Phosphorous 1 Phosphorous 1); 608 (PCB+Pest) 2), Phenols, 1, Phenols,

M. J. Reider Associates, Inc.	CHAIN OF () TODY RECORD	,
107 Angelica Street	Please Print Legibly R 33881	Page of
Reading, PA 19611	(INSTRUCTIONS ON BACK OF THIS FORM)	6. Report Type:
Phone: 610-374-5129 FAX: 610-374-7	234 DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter	Routine
Client (Company or Individual):	Address: 815 Washington St	Standard QC
City of Reading	City: Reactures State: Par ZIP: Stool Phone: FAX:	Data Package
2. Invoice To- (if different from above)	Address:	7. Turnaround Time
	City: State: ZIP: Phone: FAX:	2 Standard
3. Client Project Name / #: Pronits Pollutant/Q	costanty Lab #124 5. Sampled By:	RUSH:/
Matrix Code (for item 12) Container Codes (for item 13)	Prevervative Code (for item 14) Sample Receipt Information 4 Samples Shipped or Hi	
SIZE		ipment:
DW = Drinking Water 2L = 2 Liter V = VOA vial GW = Ground Water L = Liter G = Glass	N = HNO3 = NH4Cl Sample Containers Infact? N Cooler Return	n Fee:
WW = Waste Water 500 = 500ml P = Plastic	S = H2SO4 Z = Zinc Acetale VOC's Free of Headspace? Y N ICE CHEST:N	WS
S = Soil	P = H3PO4 V = Ascorbic/HCl COC Seal Intact or attached? Y N Checked by:	
O = Olher	H = NaOH O = Olher 17. SPECIAL INSTRUCTIONS/COMMENTS: M = Monochloroacetic Acid M et als As, As, Be, Cd, Cr, Cu, Hg, Pb, M	10, Ni, 36; Je, Ii, En
8. COMPLIANCE PURPOSE:		
Public Drinking Water: PA SDWA Forms Required	FHA/Realty Composite Voa bottles	er: Size / Type
PWSID #	NPDES 1	
		itive
MJRA 9. Sample	4 7	
ID# Description	Date Time O O O O O O O O O O O O O O O O O O O	s Doguested
1000	1 Metals, To	s Requested Fal phosphorous
4902 Final 13-902	11/29/13/801 / 10/6/11/1	
	625(sem,-	vol) 608 (PCB+Pest)
1903 FIRAL 13-920	1,50(+ Free), Phenols,
FINAL 10 120	1901/30112 JAN	
12 00	Oracliem+	Sot Hem) 624(vol)
4904 Raw 13-930	1-29-13 914 x W 6 1 1 4 Metals, Tota	· · · · · · · · · · · · · · · · · · ·
	625 (Semi ~)	iol) 608 (ACB & Pest)
4905 Raw 13-929	1-30-13 905 x w 10 2 1 2 5 CULTOHALY	coc) phenos,
	1 30 10 1 A 10 10 10 10 10 10 10 10 10 10 10 10 10	rec) phenols, Softem) wat (vol)
(080/3)1/3		3 001(10)
4906 FC 13.942	430/3 1050 x 45 5 You (6:	
18. RELINQUISHED BY	19. RECEIVED BY DATE TIME Entered by: A	pproved by:TSThrs
	1/30/13 153 S Comments;	
	1/30/13 /545	
The Client, by signing, or having client's agent sign, this Chain of Custody	Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if co	ollection becomes necessary.

M. J. Reider Associates, Inc.	CHAIN OF	TODY RECORD	1 1 1
107 Angelica Street	Pleas	Print Legibly R 34267	Page of
Reading, PA 19611	(INSTRUCTIONS	ON BACK OF THIS FORM)	6. Report Type:
Phone: 610-374-5129 FAX: 610-374-7	234 DISTRIBUTION: White	Report; Yellow: Lab; Pink: Submitter	Routine
Client (Company or Individual):	Address: 815 TW	ishington St	Standard QC
1 ty d/ Koredin	City: Se Co Class State:	2 zIP: 1960 Phone: FAX:	Data Package
2. Invoice To: (if different from above)	Address:		7. Turnaround Time
2. Invoice 16. (II different form) bove)	Address: /		
	State:	ZIP: Phone: FAX:	Standard
3. Client Project Name /#: 107 ty Pollutant	7	5. Sampled By:	RUSH:/
Matrix Code (for item 12) Confainer Codes (for item 13) SIZE TYPE	Preservative Code (for item 14) A = Ascorbic Acid T = NaS2O3	Sample Receipt Information Samples Shipped or Ho Temperature @ 4C? ✓ N — ✓ Method of Sh	and Delivered
DW = Drinking Water 2L = 2 Liter V = VOA vial	C = HCl E = EDTA	Samples received on ice? W.N. Tracking #!	n Fee:
GW = Ground Water L = Liter G = Glass	N = HNO3 L = NH4CI	Sample Containers Intact? N Cooler Return	n Fee:
WW = Waste Water 500 = 500ml P = Plastic S = Soil 250 = 250ml M = Micro	S = H2SO4 Z = Zinc Acetate P = H3PO4 V = Ascorbic/HCI	VOC's Free of Headspace? Y N ICE CHEST N COC Seal Intact or attached? Y N Checked by:	UMBER:
O = Other 125 = 125ml	H = NaOH O = Other	17. SPECIAL INSTRUCTIONS/COMMENTS:	A STATE OF THE PROPERTY OF THE
40 = 40ml	M = Monochloroacetic Acid		
8. COMPLIANCE PURPOSE:		6.	
Public Drinking Water: PA SDWA Forms Required	FHA/Realty	(//ip) 13. Containe	er: Size / Type
PWSID#	NPDES	13. Containe	5.251 1,755
		14. Preserva	itive
9. Sample	10. 11. 12.		
ID# Description	Date Lime Compositi	# Description of the state of	
4907 GC 13-954	N30/13 1504 V W	66 Voa Cu	25)
(
18. RELINQUISHED BY	19. RECEIVED BY		pproved by: TS1 hrs
	H 1/2	//30//7 /53> comments:	
		H30/13 1545	元本。2.1887年,1985年,1986年
	1 // 1	tes per the MJRA Price List or Quotation provided including any and all attorney fees if co	建筑地位的企业,是是是国际政策的企业的企业的企业。

	M. J. Reider Associates, Inc. CHAIN OF										
	107 Angelica Street	ì				Print Legib			R 3	3777	Page 3_ of
	Reading, PA 19611			,		BACK OF T					6. Report Type:
	Phone: 610-374-5129 FAX:	610-374-7234	DIST	RIBUTION:	White: Re	port; Yellow:	Lab; Pink: Sub				Routine
1. Client (Company or Ir	ndividual):	Address:	XIS	w	$\alpha \circ$	ning	ton	5t			Standard QC
(july	of Kpad	ling city: K	joudin	2	State:	ZIP:	9601	Phone:	FA	AX:	Data Package
2. Invoice To: (If differen	nt from above)	Address:	1	\mathcal{L}							7. Turnaround Time
		City:			State:	ZIP:		Phone:	F	AX:	Standard
3. Client Project Name /	1#: Priorite Polluter	15/Q20,4-100	roly Lo	1 th di	24		5. Sam	pled By:			RUSH:/
Matrix Code (for item		or item 13)	Preservative Cod	le (for item 14 T = NaS2O		 March 1 (2012) Constitute (Inches) 	le Receipt Info mperature @	To The Contact on Sheet Miles Advis	Z N	Samples Shipped or F	land Delivered
DW = Drinking Water		/ = VOA vial C = HC		E = EDTA	5	大学学での変化学学会会が	imples receive	企业的企业企业工程的企业	8 2	Tracking #:	hipment:
GW = Ground Water	u i	G = Glass N = HN	O3	L = NH4CI		(1) (所以) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	ample Contain	A THE RESERVE TO BE STORY	* (E) N	Cooler Retu	ırn Fee:
ww = waste Water	4 1	P = Plastic S = H25		Z = Zinc Ac		工作 为 的 有 的 有 为 自 的	DC's Free of H DC Seal Intact	ENGEL STEEL STREET STREET	Y N	ICE CHEST	WMBER:
S = Soil O = Other	1	M = Micro		V = Ascorbi O = Other	ic/rici	of the part payors					A recommendation in the consequence of the second s
O = Other	40 = 40ml	H	M = Monochloroad			Can	10035i	to 10	CL Bot	tles	
8. COMPLIANCE PUR			r		16		TO SO				
Public Drink	ing Water: PA SDWA Forms Re	equired	FH/	A/Realty		177	- 1 1		-T	13. Contain	er: Size / Type
PWSID#			NPI	DES	ntainers	140			,		
				1						14. Preserv	ative
and the many in the property of the property o	- Commis										
MURA	9. Sample		10.	11.	12.		tariya sayaya		6 6 8 8 8 8 8	<u> </u>	
MJRA ID#	9 Sample Description	Dat		osite	<u> </u>	1				Analysi	es Requested
ID#	Description	Dat	e Time	Composite	Matrix Total # of					15. Analys	
1D#	Description GC 13-944	1/30/	e Time	Composite	E Matrix	5 5				, ,	es Requested
ID#	Description	1/30/	e Time	Composite	EC E Comatrix				1	Voca (6	75) 75)
1D#	Description GC 13-944	1/30/	e Time	Composite	E Matrix	5 5				Vocalle	75)
1D#	Description GC 13-944 6th 13-945 FC 13-94	t 1/30/ 5 1/30/ 7 430/	Time 13 1049 13 103 13 1319	Composite	A C EC ESMatrix	55555				Vocalle	75) 25) 25)
10# 4909 4910 491(*	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948	1/30/5 1/30/7 1/30/7 1/30/	Time 13 1049 13 103 13 1319 13 1324	Composite	CECE ECMatrix	5 5 5 5 5 5				Voalb Voalb	75) 25) 25) 25)
10# 4909 4910 491(*	Description GC 13-944 6th 13-945 FC 13-947 RC 13-948 FC 13-949	1/30/5 1/30/7 1/30/7 1/30/1 1/	Time 13 1049 13 103 13 1319 13 1324 13 1458	Composite	FC CE E CMatrix	555555				Voalb Voalb Voalb	75) 25) 25) 25) 25)
10# 4909 4910 4914 4912 4913	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 RC 13-946 RC 13-946	1/30/5 1/30/7 1/30/7 1/30/7 1/30/0 1/30/0 1/30/0	Time 13 1049 13 103 13 1319 13 1324 13 1458	Composite Composite	ECECECECECECMANIX	5 5 5 5 6 6				Vocale Vocale Vocale Vocale Vocal	75) 75) 75) 75) 675)
10# V19(09 V19(0) V19(1	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-946 RC 13-956	1/30/5 1/30/7 1/30/7 1/30/1 1/30/5 1/5 1/30/5 1/30/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1	Time 13 1049 13 1003 13 1319 13 1324 13 1458 13 1505	Composite Composite	CEEEE CE CE CE CE CE Matrix	555555555555555555555555555555555555555				Vocale Voale Voale Voal Voal	75) 25) 25) 25) 25) 625) 625)
10# V19(09 V19(0) V19(1	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-948 CC 13-956 6th 13-956 GC 13-95	1/30/5 1/30/7 1/30/7 1/30/5 1/5 1/30/5 1/30/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1	13 1049 13 103 13 1319 13 1324 13 1458 13 1505 13 1337	Composite Composite	ECECECECECECMANIX	555555555555555555555555555555555555555				Vocale Vocale Vocale Vocale Vocal	75) 75) 75) 75) 675)
10# V1909 V1910 V1910 V1912 V1913 V1914 V1915 V1916 V1917	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-946 RC 13-956 6th 13-956 6th 13-956	1/30/5 1/30/7 1/30/7 1/30/5 1/5 1/30/5 1/30/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1	Time 13 1049 13 1003 13 1319 13 1324 13 1458 13 1505	Composite Composite	CEEEE CE CE CE CE CE Matrix	5555566555				Voale Voale Voale Voal Voal Voal Voal Voal Voal Voal	75) 25) 25) 25) 625) 625) 625)
10# V909 V900 U900 U910 U913 V910 V910 V910	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-946 RC 13-956 6th 13-956 6th 13-956	1/30/5 1/30/7 1/30/7 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 2/5 3/5 1/30/5 2/5 3/5 1/30/5 1/5 1/30/5 1/30/5 1/3	13 1049 13 103 13 1319 13 1324 13 1458 13 1505 13 1337	Composite Composite	CECECECECECECECECECECMANNING	5555566555	1 ,/	ATE	TIME	Voale Voale Voale Voal Voal Voal Voal Voal Voal Voal	75) 25) 25) 25) 625) 625) 625)
10# V1909 V1910 V1910 V1912 V1913 V1914 V1915 V1916 V1917	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-946 RC 13-956 6th 13-956 6th 13-956	1/30/5 1/30/7 1/30/7 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 2/5 3/5 1/30/5 2/5 3/5 1/30/5 1/5 1/30/5 1/30/5 1/3	13 1049 13 103 13 1319 13 1324 13 1458 13 1505 13 1337 13 1453	Composite Composite	CECECECECECECECECECECMANNING	5555566555	1/3	2/13	TIME /55 5	Voale Voale Voale Voal Voal Voal Voal Voal Voal Voal	75) 25) 25) 25) 625) 625) 625)
10# V909 V900 U900 U910 U913 V910 V910 V910	Description GC 13-944 6th 13-945 FC 13-948 FC 13-948 FC 13-946 RC 13-956 6th 13-956 6th 13-956	1/30/5 1/30/7 1/30/7 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 1/30/5 2/5 3/5 1/30/5 2/5 3/5 1/30/5 1/5 1/30/5 1/30/5 1/3	13 1049 13 103 13 1319 13 1324 13 1458 13 1505 13 1337 13 1453	Composite Composite	CECECECECECECECECECECMANNING	5555566555	1/3			Voca (b) Voa (b) Voa (b) Voa (c) Voa (75) 25) 25) 25) 625) 625) 625)



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss-

Reported to: City of Reading WWTP

c/o City Hall : 815 Washington St. Reading PA 19601

Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detectio	n	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
CHEMISTRY	hang min mari dala dan banyan ming min ada agai ping bid						~~~~~~
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	02/12	16:30	ici
Cyanide, Reactive	<150	* mg/kg	150	SW846 7.3	02/11	15:18	•
Cyanide, Total	5	* mg/kg	2	10204001x	02/12	16:30	-
Phenols (4AAP)	118	* mg/kg	5.99	EPA 420.4	02/07	12:47	•
Phosphorus as P. Total	19600	* mg/kg	748	SM 4500P-E	02/07	10:30	•
NITROGENS	17000	" "B/ NB	170	311 43001 E	OL/OI	10.50	utu
Nitrogen, Ammonia	11000	* mg/kg	600	EPA 350.1	02/14	13:10	icl
OTHER	11000	" "g/ kg	000	CFA \$30.1	02/14	15.10	,00
Biochemical Oxygen Demand	80200	* mg/kg	1200	SM 5210B	02/07	16:00	emw
Paint Filter Liquids Test	NoFreeLiquids	٠,	0	SW846 9095	02/15		
PHYSICAL	NorreeLiquius		J	34040 7073	OE/13	13.42	Jva
Corrosivity	Not Corrosive		0	SW846 7.2	02/11	16:15	ald
•	Not Ignitable		0	SW846 1030	02/15		
Ignitability	7.94		2	SW846 9045	•	16:00	•
pH		su					
Reactivity	Not Reactive	4	0	SW846 7.3	02/20		
Visual Color	0.brown/black	descrip.	0	VISUAL	02/19	15:30	jxs
RESIDUES		•			24 /22	4	
Solids, Total Volatile	72.1	%	1	SM 2540G		16:30	
Total Solids	16.7	%	1	SM 2540G	02/08	16:30	rdd
TITRATIONS							
Sulfide, Reactive	706	* mg/kg	299	sw846 7.3	02/08	10:30	jae
INORGANIC							
TOTAL							
Arsenic, Total	3	* mg/kg	0.6	EPA 200.9	,	15:36	
Berium, Total	306	* mg/kg	2.99	SW846 6010	02/11	11:04	
Cadmium, Total	3	* mg/kg	3	SW846 6010	02/11	11:04	
Chromium, Total	77.2	* mg/kg	2.99	SW846 6010	02/11	11:04	lna

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Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention:

Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

......

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detection	1	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analys
Copper, Total	446	* mg/kg	5.99	SW846 6010	02/11	11:04	lna
Lead, Total	120	* mg/kg	6.0	SW846 6010	02/11	11:04	lna
Mercury, Total	2	* mg/kg	1	SW846 7471	02/08	13:38	jxs
Molybdenum, Total	40	* mg/kg	6	SW846 6010	02/11	11:04	lna
Nickel, Total	32	* mg/kg	3.0	\$\#846 6010	02/11	11:04	lna
Selenium, Total	4	* mg/kg	1	EPA 200.9	02/13	05:00	rls
Silver, Total	6.0	* mg/kg	3.0	SW846 6010	02/13	12:56	lna
Zinc, Total	1130	* mg/kg	2.99	\$W846 6010	02/11	11:04	ina
O&G/TPH					·		
GENERAL							
N-Hexane Extractable Material (O&G)	43110	* mg/kg	1497	EPA 1664	02/12	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	9671	* mg/kg	1497	EPA 1664	02/12	11:00	WXC
Total Petroleum Hydrocarbons	9671	* mg/kg	29.94	EPA 1664	02/12	11:00	WXC
DRGANIC							
ACID COMPOUNDS							
2,4,6-Trichlorophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dichlorophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dimethylphenol	<5.99	* mg/kg	5.99	\$W846 8270	02/18	16:07	meb
2,4-Dinitrophenol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
2-Chlorophenol	<5.99	* mg/kg	5,99	SW846 8270	02/18	16:07	meb
2-Nitrophenol	<5.99	* mg/kg	5,99	SW846 8270	02/18	16:07	meb
4,6-Dinitro-o-cresol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
4-Chloro-3-methylphenol	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
4-Nitrophenol	<29.9	★ mg/kg	29.9	SW846 8270	02/18	16:07	meb
Pentach Loropheno L	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
Phenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
BASE NEUTRALS		-					
1,2,4-Trichlorobenzene	<5.99	*mg/kg	5.99	SW846 8270	02/18	16:07	meb
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb

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M.J. Reider Associates, Inc.



Attention:

Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detectio	n	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
1,2-Diphenylhydrazine (as Azobenzene)	<5.99	* mg/kg	5.99	\$W846 8270	02/18	16:07	meb
1,3-Dichlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
1,4-Dichlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	neb
2,4-Dinitrotoluene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,6-Dinitrotoluene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2-Chloronaphthalene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
3,3'-Dichlorobenzidine	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
3,4-Benzofluoranthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
4-Bromophenyl phenyl ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
4-Chlorophenyl phenyl ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Acenaphthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Acenaphthylene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Anthracene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzidine	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
Benzo(a)anthracene	<5.99	* mg/kg	5.99	\$W846 8270	02/18	16:07	meb
Benzo(a)pyrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzo(ghi)perylene	<5.9 9	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzo(k)fluoranthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-chloroethoxy)methane	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-Chloroethyl) ether	<5.99	★ mg/kg	5.99	sw846 8270	02/18	16:07	meb
Bis(2-Chloroisopropyl) ether	< 5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-Ethylhexyl) phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Butyl benzyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Chrysene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Di-n-butyl phthalate	<5.99	* mg/kg	5,99	sw846 8270	02/18	16:07	meb
Di-n-octyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Dibenz(a,h)anthracene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Diethyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Dimethyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb

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Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention:

Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detection	on	Test Test			
	Results	Unit	Limit	Procedure	Date	Time	Analyst	
Fluoranthrene	<5.99	* mg/kg	5.99	sw846 8270	02/18	16:07	meb	
Fluorene	<5.99	* mg/kg	2.99	SW846 8270	02/18	16:07	meb	
Hexachlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Hexachlorobutadiene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Hexachlorocyclopentadiene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Hexachloroethane	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Indeno(1,2,3-cd)pyrene	<5.99	* mg/kg	5,99	SW846 8270	02/18	16:07	meb	
Isophorone	<5,99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
N-Nitrosodi-n-propylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
N-Nitrosodimethylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
N-Nitrosodiphenylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Naphthalene	<5.99	* mg/kg	5.99	\$\#846 8270	02/18	16:07	meb	
Nitrobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
Phenanthrene	<5.99	* mg/kg	5.99	\$W846 8270	02/18	16:07	meb	
Pyrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb	
EXTRACTION								
SW846 8081 Extraction	Complete		0	SW846 8081	02/15	08:00	jlv	
SW846 8270 Extraction	Complete		0	SW846 8270	02/18	10:00	mcm	
PCBS								
PCB-1016	<1.20	* ug/kg	1.20	SW846 8082	02/18	22:26	rpb	
PCB-1221	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb	
PCB-1232	<1.20	★ mg/kg	1.20	sw846 8082	02/18	22:26	rpb	
PCB-1242	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb	
PCB-1248	<1.20	* mg/kg	1.20	sw846 8082	02/18	22:26	rpb	
PCB-1254	<1.20	* mg/kg	1.20	SW846 B082	02/18	22:26	rpb	
PCB-1260	<1.20	* mg/kg	1.20	sw846 8082	02/18	22:26	rpb '	
PESTICIDES								
4,4'-DDD	<1.20	* mg/kg	1.20	\$W846 8081	02/18	23:02	rpb	
4,4'-DDE	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb	

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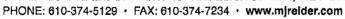
Richard Wolfe Technical Director

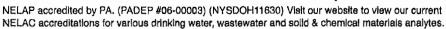
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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611









M.J. Reider Associates, Inc.



Attention:

Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

.

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detection	n	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
4,4'-DDT	<1.20	* mg/kg	1.20	sw846 B081	02/18	23:02	rpb
Aldrin	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
alpha-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
beta-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Chlordane	<2.99	* mg/kg	2.99	SW846 8081	02/18	23:02	rpb
delta-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Dieldrin	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan I	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan II	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan sulfate	<1.20	* mg/kg	1.20	\$W846 8081	02/18	23:02	rpb
Endrin	<1.20	* mg/kg	1,20	\$W846 8081	02/18	23:02	rpb
Endrin aldehyde	<1.20	* mg/kg	1.20	\$W846 8081	02/18	23:02	rpb
Heptachlor	<1.20	* mg/kg	1.20	\$\#846 8081	02/18	23:02	rpb
Heptachlor Epoxide	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Lindane (Gamma BHC)	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Toxaphene	<5.99	* mg/kg	5.99	SW846 8081	02/18	23:02	rpb
VOLATILES		•			•		
1,1,1-Trichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1,2,2-Tetrachloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1,2-Trichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1-Dichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,2-Dichloroethane	<150	* ug/kg	150	sw846 826 0	02/12	10:12	gxf
1,2-Dichloropropane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
2-Chloroethylvinyl Ether	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Acrolein	<1500	* ⊔g/kg	1500	~sw846~8260~	02/12	10:12	gxf
Acrylonitrile	<1500	* ug/kg	1500	sw846 8260	02/12	10:12	gxf
Benzene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Bromoform (Tribromomethane)	<150	≭ ug/kg	150	SW846 8260	02/12	10:12	gxf

Distribution of Report:

Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe Technical Director

Page 5 of 7

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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight			Detection	1	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
Bromomethane (Methyl Bromide)	<300	* ug/kg	300	SW846 8260		10:12	gxf
Carbon Tetrachloride	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chlorobenzene (Monochlorobenzene)	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chlorodibromomethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chloroethane	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
Chloroform	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chloromethane (Methyl Chloride)	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
cis-1,2-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
cis-1,3-Dichloropropylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Dichlorobromomethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Ethy lbenzene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Library Search, Volatiles	see comment	ug/kg	30	SW846 8260	02/12	10:12	gxf
Methylene Chloride	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Tetrachloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Toluene	170	* ug/kg	150	SW846 8260	02/12	10:12	gxf
trans-1,2-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
trans-1,3-Dichloropropylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Trichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Trichlorofluoromethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Vinyl Chloride	<300	* ug/kg	300	\$W846 8260	02/12	10:12	gxf
Xylenes (Total)	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
COMMENTS:							

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

2 - The SW846 8270 method QC was low for Benzidine.

Distribution of Report:

Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc. Reviewed and Approved By:

Richard Wolfe

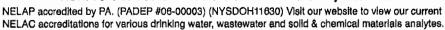
Technical Director

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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611 PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjrelder.com







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

02/21/13

Lab ID:

0124-13-0005866

Date Collected:

Collected By:

02/05/13 08:35

Client

Date Received:

02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

Detection Limit

Procedure

Test

Time Analyst

3 - For the SW846 8260 procedure, the matrix spike performed on the sample was low for Methyl tert butyl ether & Xylenes.

Results

Unit

4 - The VOC library search tentatively identified Acetone, MEK, p-Isopropyltoluene, Naphthalene, Dimethyl sulfide, Undecame, Tridecame & 3 unknown aromatic compounds.

Distribution of Report: Amy L. Morriss - City of Reading WWTP M. J. Reider Associates, Inc. Reviewed and Approved By:

Technical Director

Page 7 of 7

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

o/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

Date of Report:

02/21/13

Lab ID:

124~13~0005914

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

,							02/00/10 120	
,	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
	****				~			
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.88	su	1	1	\$W846 9040	02/08	08:35	JXS
pH, Leachate	5.31	su	1	1	SW846 9040	02/08	08:35	JXS
INORGANIC								
EXTRACTION								
TCLP Preparation	Complete		0	0	EPA 1311	02/08	08:35	JX\$
TCLP								
Arsenic, TCLP	<.05	mg/l	.05	1	sw846 6010	02/11	11:04	LNA
Barium, TCLP	0.48	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Cadmium, TCLP	<.05	mg/l	.05	1	SW846 6010	02/11	11:04	LNA
Chromium, TCLP_	<.05	mg/L	.05	1	sw846 6010	02/11	11:04	LNA
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Iron, TCLP	6.3	mg/L	.2	1	\$W846 6010	02/14	13:05	LNA
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	02/11	11:04	LNA
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	02/13	13;02	JXS
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	02/11	11:04	LNA
Nickel, TCLP	0.06	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Selenium, TCLP	0.05	mg/L	.05	1	\$W846 6010	02/11	11:04	LNA
Silver, TCLP	<.05	mg/L	. 05	1	SW846 6010	02/13	12:56	LNA
Zinc, TCLP	0.75	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
DRGANIC		•				·		
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	NEB
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	NEB
Cresols, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Pentachlorophenol, TCLP	<250	ug/l	250	1	SW846 8270	02/12	12:55	MEB
BASE NEUTRALS		-						
2,4-Dinitrotoluene, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Hexachlorobenzene, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Distribution of Reports:					Reviewed an			

Technical Director

Page 1 of 3







M.J. Reider Associates, Inc.



. Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

Date of Report:

02/21/13

Lab ID:

124-13-0005914

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

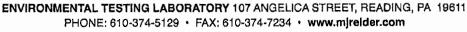
02/06/13 15:10

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Hexachloroethane, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Nitrobenzene, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB
Pyridine, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
EXTRACTION		•,				•		
SM 6640B Extraction	Complete		0	0	SM 6640B	02/18	08:00	JLV
SW846 8081 Extraction	Complete		0	0	SW846 8081	02/14	09:00	HCM
SW846 8270 Extraction	Complete		0	0	SW846 8270	02/12	08:00	JLV
HERBICIDES	·					•		
2,4,5-TP Silvex, TCLP	<1	ug/l	1	1	SM 6640B	02/19	20:52	RPB
2,4-D, TCLP	<1	ug/l	1	1	SM 6640B	02/19	20:52	RPB
PESTICIDES								
Chlordane, TCLP	<5	ug/L	5	1	SW846 8081	02/15	03:07	RPB
Endrin, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Heptachlor (and hydroxide), TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Heptachlor Epoxide, TCLP	<.5	ug/L	.5	1	sw846 8081	02/15	03:07	RPB
Lindane, TCLP	<.5	ug/l	.5	1 .	sw846 8081	02/15	03:07	RPB
Methoxychlor, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Toxaphene, TCLP	<10	ug/l	10	1	SW846 8081	02/15	03:07	RPB
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/l	50	1	sw846 8260	02/08	09;27	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/l	50	1	sw846 8260	02/08	09:27	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/l	50	1	sw846 8260	02/08	09:27	GXF
Benzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/l	50	1	sw846 8260	02/08	09:27	GXF
Chlorobenzene, ZHE TCLP	<50	ug/l	50	1	sw846 826 0	02/08	09:27	GXF
Chloroform, ZHE TCLP	<50	ug/l	50	1	sw846 8260	02/08	09:27	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/l	200	1	sw846 8260	02/08	09:27	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/l	50	1	sw846 8260	02/08	09:27	GXF
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Richard Wolfe Technical Director

Page 2 of 3









M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

Date of Report: Lab ID:

02/21/13

124-13-0005914

Date Collected:

02/05/13 08:35

Collected By:

Client

Date Received:

02/06/13 15:10

			Rep	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/l	100	1	9W846 8260	02/08	09:27	GXF

COMMENTS

The SW846 8270 method surrogate 2-Fluorophenol was high in the 01

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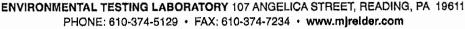
Reviewed and Approved by:

Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Beltpress 13-1135 (Form 43) ASTM Leachate Analysis

Date of Report:

02/21/13

Lab ID:

124-13-0005915

Date Collected:

02/05/13 08:35

Collected By:

Date Received:

Client

02/06/13 15:10

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	64	mg/l	2	20	D6919-03	02/11	18:15	JCL
OTHER								
Chemical Oxygen Demand	168	mg/l	25	1	HACH8000	02/13	06:45	TMH
PHYSICAL				•				
Н	7.93	su	1	1	\$M4500H-B	02/12	13:10	EMW
RESIDUES								
Solids, Total	302	mg/l	5	1	SM 2540B	02/11	17:15	RDD
INORGANIC								
EXTRACTION								
ASTM Preparation	Complete		0	0	ASTM	02/07	08:20	JXS
O&G/TPH								
· GENERAL								
Oil and Grease	<10	mg/l	10	1	EPA 1664	02/12	06:00	WXC
Total Petroleum Hydrocarbons	<10	mg/kg	10	1	EPA 1664	02/12	11:00	WXC

COMMENTS

O1 The duplicate analysis of this sample for total solids was outside the acceptable limit of 5% of their average weight.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe Technical Director

Page 1 of 1





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	M. J. Reider	Associa	ates, Inc.	1		CHAI	N OF	cus	TODY	REC	ORD		-			1 , , 1
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	Reading, PA 19	611		1		(INSTR	RUCTION	SONE	BACK O	F THIS F	ORM)		L	n J	4210	6. Report Type:
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	Phone. 010-514	-0.125 17	AX. 010-074-7	2.54	DIST	RIBUTIC	AV. VVINE	s. Rep	OIL TER	W. Lab,	THE SUI	Jinuei				- Reduine
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2. Invoice To: (If differe	ent town above)	_)	Address:		-										7. Turnaround Time
				-												
				City:			State	:	ZIP			Phone:		F#	<u> </u>	Standard
3. Client Project Name	1# Lab 18	14		4. P.O. No.:							5. Sam	pled By:				RUSH:/
Matrix Code (for iter			es (for item 13)	Prese	rvative Cod	e (for iter	n 14)		Sar	nple Rec	eipt (nfc	rmation			Samples Shipped or I	land Delivered
	. н	SIZE	TYPE	A = Ascorbic		T = NaS				•	ature @			G N	Method of S	
DW = Drinking Water	r 2L=	2 Liter	V = VOA via	C=HCI		E = EDT	ľΑ			Sample	s receiv	ed on ice	?	N 8	Tracking #:	
GW = Ground Water	. L≃	Liter	G = Glass	N = HNO3		L=NH4	ICI			Sample	Contain	ers Intact	?	(2) N	Cooler Retu	rm Fee:
ww = Waste Water		500ml	P = Plastic	S = H2SO4		Z = Zinc	Acetate			VOC's F	ree of H	leadspace	?	Y N		
S = Soil O = Other Belt	250 =	250ml	M = Micro	P = H3PO4		V = Asc	arbic/HCI			COC Se	al Intact	or attach	ed?	Y N	Checked by	:
0 = Other 52	125=	125ml -	O=Other _	H=NaOH		O = Oth	er		17. SI	PECIAL	NSTRUC	CTIONS/C	OMMEN	ITS:	. /	$(\mathbf{v}_{\mathbf{v}})$
51		40ml	<u> </u>	M = M	onochloroad	etic Acid			-	D.	- ^ -	_	o. 5	dre	wet me	1kg/
8. COMPLIANCE PUR		- 7	< -*					16.		1,70	for			77	3 ()	9
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5865	FC 13-1	130		2/8/13	803		w		1						Ha	
	(2)	1120	`	10/1/2	803		W.								100)(ethylhoxyl)phthalo
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5866°	Beltoness	13.	136	2/5/13	835	V	0	13			3			1	Circon 4	13 (See attached)
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5414	tal							1							Ac Cri	otal Phosphorous
6016	100			1											77.7	
J4D -	ASM_							1	_						CHOCOTAL	rFree) Phenois
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:						4									808ZLPC	B), BOD, NHW
18. RELINQUISHED	DBY			19. RECEN	/ED BY							ATE	15		SET SZLAC	B), BOD, NHW
18. RELINQUISHED	an			19. RECEN	/ED BY							ATE	10		808ZLPC	B), BOD, NHW
18. RELINQUISHED	an			19. RECEN	/ED BY								100		SET SZLAC	B), BOD, NHW



Amy L. Morriss

c/o City Hall 815 Washington St.

Reading PA 19601

Reported to: City of Reading WWTP

Attention:

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



and Otr

Date of Report:

05/29/13

Lab ID:

0124-13-0020059

Date Collected:

05/14/13 08:15

Collected By:

Client

Date Received:

05/15/13 15:35

Sample Description: 13-4332, Belt Press Sludge (Composite, Quarterly)

* Results Expressed as Dry Weight			Detectio	•	Test	Test		
•	Results	Unit	Limit	Procedure	Date	Time	Analyst	
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<2	* mg/kg	2	DEP 1	05/16	14:52	jel	
Cyanide, Total	2	* mg/kg	2	10204001x	•	14:52	•	
Phenols (4AAP)	68.4	* mg/kg	5.18	EPA 420.4	05/16	12:01	jcl	
Phosphorus as P, Total	15300	* mg/kg	648	SM 4500P-E	05/28	09:45	ald	
PHYSICAL		-, -			•			
Visual Color	Dark Brown	Descript.	1	VISUAL	05/29	08:30	ald	
RESIDUES		•			•			
Total Solids	19.3	%	.01	SM 2540G	05/17	17:30	rdd	
INORGANIC					•			
TOTAL								
Chromium, Total	83.9	* mg/kg	2.59	SW846 6010	05/17	10:03	lna	
Silver, Total	5.7	* mg/kg	2.6	SW846 6010	05/21	12:40	lna	
O&G/TPH					·			
GENERAL								
N-Hexane Extractable Material (O&G)	9663	* mg/kg	1295	EPA 1664	05/20	05:00	wxc	
Silica Gel Treated N-Hexane Extract(TPH)	2380	* mg/kg	1300	EPA 1664	05/20	11:00	WXC	
ORGANIC					·			
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	7.36	* mg/kg	5.18	SW846 8270	05/21	15:21	meb	
EXTRACTION		-, -			·			
SW846 8270 Extraction	Complete		0	SW846 8270	05/21	08:00	meb	
COMMENTS:	•				•			

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:

Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc. Reviewed and Approved By:

Richard Wolfe Technical Director

Page 1 of 1

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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611 PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com



		M. J. R	eider Associa	ates, Inc.			CHA	IN O	F CU	STODY	REC	ORD				
		107 Ange	elica Street					F	Please	Print Leg	jibły			R 3	5991	Page of
		Reading,	, PA 19611		1		(INST	RUCT	IONS ON	BACK OF	F THIS F	ORM)			0001	6. Report Type:
		Phone: 6	10-374-5129 FA	AX: 610-374-72	34	DIS	TRIBUTI	ON: V	White: Re	port, Yello	w: Subm	itter				Routine
1	1. Client (Company or i	ndividual):	^ :		Address:	815	5 U	U۵	esh	neto	222	St				Standard QC
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			Jearsivi) 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COLUC) 			<u></u>	Į (W)					
	2. Invoice To: (If differen	nt from above)			Address:											7. Turnaround Time
			<u> </u>		City:			s	State:	ZIP:	:	Phon			AX:	Standard
	3. Client Project Name	# Quo	interly #	124 Lab	4. P.O. No.:				· .			5. Sampled	Зу:	CST		RUSH://
	Matrix Code (for iten	12)	Container Code			ervative Coo	de (for ite T = Na									
	DW = Drinking Water		SIZE 2L = 2 Liter	TYPE V = VOA vial	A = Ascorbic C = HCl	ACIG	E = ED				rodu je bil Žeorojas					
	GW = Ground Water		L = Liter	G = Glass	N = HNO3		L = NH									
	ww = Waste Water		500 = 500ml	P = Plastic	S = H2SO4		Z = Zin									
	S = Soil O = Other 5 i	200-	250 = 250mi 125 = 125mi	M ≈ Micro O = Other	P = H3PO4 H = NaOH		V = Asa O = Oti		HCI	17 SP	ECIAL D	NSTRUCTIO	IS/COMM	ENTS:		
·	U = Other	7	40 = 40mi	0 = Ouler		lonochloroa				7)	1 -	مدرا	e C	s melke o	dre wet
	8. COMPLIANCE PUR								16.		Sepo	ict o	Inal		s malks o	5
	Public Drink	-	PA SDWA Forms	Required		FH.	A/Realt	ty	- 1							er: Size / Type
	PWSID# 124			7.		NPDES E CO				,	=			13. Containe	si. Size / Type	
	FWSID#			 -			DLO		12. Containers	1			 	 	14. Preserva	ative
		g. Sa	ample		10.		11.		12. ပိ						←	
		De	escription	•			osite		ž å						KI N	
~~			<u>-</u>		Date	Time	Comi	Grab	Matrix Total #				and the second		√15. Analyse	s Requested
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															TE Shear	1 - 0 125
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	The Client, by signing	, or having die	ent's agent sign, this (Chain of Custody F	orm, agrees to	pay for the a	above rec	queste	d service	s per the N	/JRA Pric	e List or Quo	tation prov	ided including	any and all attorney fees if co	ollection becomes necessary.



M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

Sample Desc: FC 13-3704 Composite

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

05/01/13

Lab ID:

124-13-0017387

Date Collected:

04/24/13 07:53

Collected By:

CLIENT

Date Received:

04/26/13 14:50

							7	,
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CUENTOTOV					***********			
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.8	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	0.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.017	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	0.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	0.006	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.066	mg∕l	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.5	ug/l	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

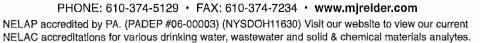
Distribution of Reports:

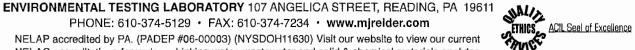
Reviewed and Approved by:

Technical Director

Page 1 of 1









M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: FC 13-3705 Grab

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

05/01/13

Lab ID:

124-13-0017388

Date Collected:

04/25/13 07:57

Collected By:

CLIENT

Date Received:

04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY		**********						
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	0.005	mg/L	,004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.021	mg/l	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	04/29	12:00	WXC

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Technical Director

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Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

Sample Desc: Raw Influent 13-3708 Composite

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



and atr

Date of Report:

05/01/13

Lab ID:

124-13-0017381

Date Collected:

04/24/13 08:15

Collected By:

CLIENT

Date Received:

04/26/13 14:50

campus seem and any areas to end composition					5415 11651	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.7-5	, ,
	Result	Result Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								~~~~~
COLORMETRIC								
Phosphorus as P, Total	4.6	mg/l	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	0.008	mg/l	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.031	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.130	mg/l	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

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Reviewed and Approved by:

Richard Wolfe Technical Director

Page 1 of 1







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: Raw Influent 13-3713 Grab

Date of Report:

05/01/13

Lab ID:

124-13-0017382

Date Collected:

04/25/13 08:16

Collected By:

CLIENT

Date Received:

04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.079	mg/l	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	16	mg/L	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	< 5	mg/l	5	1	EPA 1664	04/29	12:00	WXC

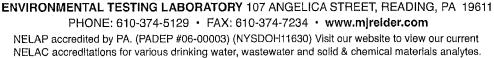
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Attention: Amy L. Morriss

Reported To: City of Reading WWTP

Sample Desc: GC 13-3722 Composite

c/o City Hall 815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



and atr

Date of Report:

05/01/13

Lab ID:

124-13-0017383

Date Collected:

04/24/13 08:46

Collected By:

CLIENT

Date Received:

04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.5	mg/l	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC		=1				,		
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.062	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	<.01	mg/l	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.135	mg/l	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	< 5	ug/l	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

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Reviewed and Approved by:

Richard Wolfe Technical Director

Page 1 of 1







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: GC Grab

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

05/01/13

Lab ID:

124-13-0017384

Date Collected:

04/25/13 08:48

Collected By:

CLIENT

Date Received:

04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.059	mg/l	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	13	mg/l	5	1 .	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	04/29	12:00	WXC

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Reviewed and Approved by:

Richard Wolfe — Technical Director

Page 1 of 1







M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

Sample Desc: 6th 13-3722 Composite

c/o City Hall 815 Washington St. Reading PA 19601 JE Utr

Date of Report:

05/01/13

Lab ID:

124-13-0017385

Date Collected:

04/24/13 09:06

Collected By: CLI

CLIENT

Date Received:

04/26/13 14:50

						•	•
Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
5.1	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
					,		
<.001	mg/l	.001	1	EPA 200.9	04/30	10:28	RLS
<.005	mg/L	.005	1	EPA 200.7	-	10:56	LNA
0.016		.005	1	EPA 200.7		10:56	LNA
0.054		.01	1	EPA 200.7	•	10:56	LNA
0.01		.01	1	EPA 200.7	•	10:56	LNA
0.0001		.0001	1	EPA 245.1	•	11:45	JXS
0.02		.01	1	EPA 200.7	•	10:56	LNA
0.007	mg/L	.005	1	EPA 200.7		10:56	LNA
<.005		.005	1	EPA 200.7		11:01	LNA
0.242	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
					•		
6.3	ug/l	5	1	EPA 625	04/30	17:54	MEB
					•		
Complete		0	0	EPA 625	04/29	08:00	MEB
	5.1 <.001 <.005 0.016 0.054 0.01 0.0001 0.02 0.007 <.005 0.242	5.1 mg/l <.001 mg/l <.005 mg/l 0.016 mg/l 0.054 mg/l 0.001 mg/l 0.0001 mg/l 0.002 mg/l 0.007 mg/l <.005 mg/l 0.242 mg/l	Result Unit Limit	Result Unit Limit Factor 5.1 mg/l .5 10 <.001 mg/l .001 1 <.005 mg/l .005 1 0.016 mg/l .005 1 0.054 mg/l .01 1 0.001 mg/l .01 1 0.0001 mg/l .01 1 0.0001 mg/l .001 1 0.02 mg/l .01 1 0.007 mg/l .005 1 <.005 mg/l .005 1 <.005 mg/l .005 1 0.042 mg/l .005 1 0.054 mg/l .005 1 0.097 mg/l .005 1 0.007 mg/l .005 1 0.005 mg/l .005 1 0.242 mg/l .005 1	Result Unit Limit Factor Procedure 5.1 mg/L .5 10 SM 4500P-E <.001 mg/L .001 1 EPA 200.9 <.005 mg/L .005 1 EPA 200.7 0.016 mg/L .005 1 EPA 200.7 0.054 mg/L .01 1 EPA 200.7 0.01 mg/L .01 1 EPA 200.7 0.001 mg/L .01 1 EPA 200.7 0.0001 mg/L .001 1 EPA 200.7 0.0001 mg/L .0001 1 EPA 245.1 0.02 mg/L .001 1 EPA 200.7 0.007 mg/L .005 1 EPA 200.7 <.005 mg/L .005 1 EPA 200.7 <.005 mg/L .005 1 EPA 200.7 0.242 mg/L .005 1 EPA 200.7 0.242 mg/L .005 1 EPA 200.7	Result Unit Limit Factor Procedure Date 5.1 mg/L .5 10 SM 4500P-E 04/29 <pre> <.001 mg/L .001 1 EPA 200.9 04/30 <.005 mg/L .005 1 EPA 200.7 04/29 0.016 mg/L .005 1 EPA 200.7 04/29 0.054 mg/L .01 1 EPA 200.7 04/29 0.01 mg/L .01 1 EPA 200.7 04/29 0.001 mg/L .01 1 EPA 200.7 04/29 0.0001 mg/L .001 1 EPA 200.7 04/29 0.0001 mg/L .0001 1 EPA 245.1 04/30 0.02 mg/L .01 1 EPA 200.7 04/29 0.007 mg/L .005 1 EPA 200.7 04/29 </pre> 	Result

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: 6th Grab

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

05/01/13

Lab ID:

124-13-0017386

Date Collected:

04/25/13 09:08

Collected By:

CLIENT

Date Received:

04/26/13 14:50

									•	
		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst	
CHEN	IISTRY									
CC	DLORMETRIC									
	Cyanide, Free	<.004	mg/l	.004	1	DEP 1	04/29	15:03	JCL	
	Cyanide, Total	<.004	mg/l	.004	1	10204001X	04/29	15:03	JCL	
	Phenols (4AAP)	0.088	mg/l	.01	1	EPA 420.4	04/29	12:42	JCL	
O&G/	TPH		•				·			
GE	NERAL					•				
	N-Hexane Extractable Material (O&G)	52	mg/l	5	1	EPA 1664	04/29	06:00	WXC	
	Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	04/29	12:00	WXC	

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Reviewed and Approved by

Richard Wolfe

Technical Director

Page 1 of 1







Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Date of Report:

07/31/13

Lab ID:

124-13-0031803

Date Collected:

07/23/13 08:37

CLIENT

Collected By:

Date Received:

07/24/13 15:15

Sample Desc: RC 13-6665 (Quarterly, Composite)

		_	Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
CHEMISTRY	and and areason are first new later and size and size that the							
COLORMETRIC								
Phosphorus as P, Total	5.1	mg/l	.5	10	SM 4500P-E	07/25	10:00	ALD
INORGANIC						•		
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	0.013	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.070	mg/l	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	0.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	0.0003	mg/l	.0001	1	EPA 245.1	07/30	16:20	JXS-
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	0.007	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.220	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC						·		
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION						•		
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

Distribution of Reports:

Richard Wolfe Technical Director

Page 1 of 1





M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

07/31/13

Lab ID:

124-13-0031804

Date Collected:

07/24/13 08:40

Collected By: 0

CLIENT

Sample Desc: RG 13-6668 (Quarterly, Grab)

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.005	mg/l	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg∕l	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.032	mg/l	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	< 5	mg/l	5	1	EPA 1664	07/26	07:00	WXC

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Richard Wolfe

Technical Director

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M.J. Reider Associates, Inc.



3rd Ar

Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

07/31/13

Lab ID:

124-13-0031805

Date Collected:

07/23/13 08:12

Collected By:

CLIENT

Sample Desc: FC 13-6656 (Quarterly, Composite)

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMICITON			*************					
CHEMISTRY								
COLORMETRIC	1.5	mm / I	.5	10	PM /500p	07/25	10.00	AL D
Phosphorus as P, Total	1.5	mg/l	.5	10	SM 4500P-E	01/25	10:00	ALD
INORGANIC								
TOTAL				_		/		
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/L	,005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.014	mg/l	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA.
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	0.03	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA:
Zinc, Total	0.044	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION		- 07				,		
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

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Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: FG 13-6657 (Quarterly, Grab)

Date of Report:

07/31/13

Lab ID:

124-13-0031806

Date Collected:

07/24/13 08:10

Collected By:

CLIENT

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg/l	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.021	mg/l	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/26	07:00	WXC

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Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

Sample Desc: GC 13-6658 (Composite)

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

07/31/13

Lab ID:

124-13-0031808

Date Collected:

07/23/13 08:00

Collected By:

CLIENT

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.4	ug/l	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION								
FPA 625 Extraction	Complete		0	ñ	FPA 625	07/25	09.00	.II V

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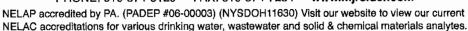
Richard Wolfe Technical Director

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Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

Sample Desc: GC 13-6658 (Quarterly, Composite)

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



31d Qh

Date of Report:

07/31/13

Lab ID:

124-13-0031812

Date Collected:

07/23/13 08:00

Collected By:

CLIENT

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.078	mg/l	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.162	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

07/31/13

Lab ID:

124-13-0031810

Date Collected:

07/23/13 08:00

Collected By:

CLIENT

Sample Desc: GC 13-6658 (Quarterly, Composite)

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY COLORMETRIC Phosphorus as P, Total	4.0	mg/l	.5	10	SM 4500P-E	07/25	10:00	ALD

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Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

07/31/13

Lab ID:

124-13-0031813

Date Collected:

07/24/13 08:05

Collected By:

CLIENT

Date Received:

07/24/13 15:15

Sample Desc: GC 13-6659 (Quarterly, Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001x	07/29	15:17	JCL

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: GC 13-6659 (Quarterly, Grab)

Date of Report:

07/31/13

Lab ID:

124-13-0031811

Date Collected:

07/24/13 08:05

Collected By:

CLIENT

Date Received:

07/24/13 15:15

		Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
O&G/TPH									
GENERAL									
N−Hexa	ane Extractable Material (O&G)	19	mg/l	5	1	EPA 1664	07/25	05:00	WXC
Silice	a Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	07/26	07:00	MXC

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

07/31/13

Lab ID:

124-13-0031809

Date Collected:

07/24/13 08:05

Collected By:

CLIENT

Sample Desc: GC 13-6659 (Quarterly, Grab)

Date Received:

07/24/13 15:15

			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst

CHEMISTRY								
COLORMETRIC								
Phanole (AAAD)	0.070	ma/I	01	1	FPA 420 4	07/29	12.04	.ICI

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Technical Director

Page 1 of 1







Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

Sample Desc: 6th 13-6660 (Quarterly, Composite)

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



379 Qt

Date of Report:

07/31/13

Lab ID:

124-13-0031815

Date Collected:

07/23/13 08:15

Collected By:

CLIENT

Date Received:

07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC			_	4.0				
Phosphorus as P, Total	2.6	mg/l	.5	10	SM 4500P-E	07/25	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	0.006	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.029	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.106	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	8.7	ug/l	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION		•						
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Sample Desc: 6th 13-6661 (Quarterly, Grab)

Date of Report:

07/31/13

Lab ID:

124-13-0031814

Date Collected:

07/24/13 08:18

Collected By:

CLIENT

Date Received:

07/24/13 15:15

	Result	Unit	Rep.	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.005	mg/l	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.068	mg/L	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (0&G)	19	mg/l	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	< 5	mg/l	5	1	EPA 1664	07/26	07:00	WXC

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M.J. Reider Associates, Inc.



Attention: Amy L. Morriss Reported to: City of Reading WWTP

> c/o City Hall 815 Washington St. Reading PA 19601

AMENDED

Date of Report:

09/30/13

Lab ID:

0124-13-0035657

Date Collected:

08/13/13 09:25

Collected By:

Client

Date Received:

08/14/13 14:40

Sample Description: Belt Press Sludge 13-7357 (Quarterly + Form 43) Total

Analysis

Milatysis							
* Results Expressed as Dry Weight			Detectio	n	Test	Test	
	Results	Unit 	Limit	Procedure	Date	Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	08/19	16:28	jcl
Cyanide, Reactive	<110	* mg/kg	110	SW846 7.3	08/22	17:21	jcl
Cyanide, Total	4	* mg/kg	2	10204001x	08/19	16:28	jcl
Phenols (4AAP)	42	* mg/kg	4.5	EPA 420.4	08/19	14:01	jcl
Phosphorus as P, Total	12900	* mg/kg	566	SM 4500P-E	08/16	07:55	ald
OTHER							
Paint Filter Liquids Test	NoFreeLiquio	ab	0	SW846 9095	08/26	13:40	jxs
PHYSICAL							
Corrosivity	Not Corrosiv	/e	0	SW846 7.2	08/26	14:30	ald
Ignitability	Not Ignitab	le	0	SW846 1030	08/26	14:31	jxs
рН	9.17	su	2	SW846 9045	08/15	13:35	emw
Reactivity	Not Reactive	e	0	SW846 7.3	08/28	08:18	raw
Visual Color	Dark Brown	Descript.	1	VISUAL	08/28	16:12	ald
RESIDUES					·		
Solids, Total Volatile	64.1	%	1	SM 2540G	08/19	16:50	rdd
Total Solids	22.1	%	. 01	SM 2540G	08/19	16:50	rdd
· TITRATIONS							
Sulfide, Reactive	390	* mg/kg	230	SW846 7.3	08/23	10:30	jae
INORGANIC							
TOTAL							
Arsenic, Total	2	* mg/kg	0.4	EPA 200.9	08/21	14:01	rls
Barium, Total	397	* mg/kg	2.26	SW846 6010	08/16	10:38	lna
Cadmium, Total	3	* mg/kg	2	SW846 6010	08/16	10:38	lna
Chromium, Total	114	* mg/kg	2.26	sw846 6010	08/16	10:38	lna
Copper, Total	529	* mg/kg	4.52	SW846 6010	08/20	12:34	lna
Lead, Total	180	* mg/kg	4.5	SW846 6010	08/16	10:38	lna
Mercury, Total	0.9	* mg/kg	0.9	SW846 7471	08/23	12:18	jxs

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Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc. Reviewed and Approved By:

Richard Wolfe Technical Director

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M.J. Reider Associates, Inc.



Attention:

Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

09/30/13

Lab ID:

0124-13-0035657

Date Collected:

08/13/13 09:25

Collected By:

Client

Date Received:

08/14/13 14:40

Sample Description: Belt Press Sludge 13-7357 (Quarterly + Form 43) Total

Analysis

7,1141) 313							
* Results Expressed as Dry Weight			Detectio	on	Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
Molybdenum, Total	72	* mg/kg	4.5	sw846 6010	08/16	10:38	lna
Nickel, Total	60.6	* mg/kg	2.26	sw846 6010	08/16	10:38	lna
Selenium, Total	5.0	* mg/kg	0.90	EPA 200.9	08/21	23:49	rls
Silver, Total	6.8	* mg/kg	2.3	SW846 6010	08/20	08:52	lna
Zinc, Total	1570	* mg/kg	2.26	sw846 6010	08/20	12:34	lna
O&G/TPH		-, -			·		
GENERAL							
Oil and Grease	19840	* mg/kg	1131	EPA 1664	08/20	05:00	wxc
Total Petroleum Hydrocarbons	5271	* mg/kg	22.62	EPA 1664	08/27	05:00	WXC
ORGANIC		-, -			•		
'SE NEUTRALS							
Jis(2-Ethylhexyl) phthalate	4.5	* mg/kg	2.3	SW846 8270	08/27	10:51	meb
EXTRACTION		· ·			•		
SW846 8082 Extraction	Complete		0	SW846 8082	08/21	15:00	mcm
SW846 8270 Extraction	Complete		0	sw846 8270	08/21	09:00	meb
PCBS					•		
PCB-1016	<0.905	* ug/kg	0.905	sw846 8082	08/23	09:34	rpb
PCB-1221	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1232	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1242	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1248	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1254	<0.905	* mg/kg	0.905	sw846 8082	08/23	09:34	rpb
PCB-1260	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
COMMENTS:		-, -			•		

1 - Not Ignitable: No combustion after 2 minutes of direct contact with a torch's flame.

2 - The report has been amended to report the results on a Dry Weight Basis.

Distribution of Report:

Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc. Reviewed and Approved By:

Richard Wolfe Technical Director

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	107 Angelic									egibly				R	37	223		of
	Reading, PA					(INST	RUCT	IONS O	N BACH	OF THIS	FORM)			-	51	225	6. Report Type:	
	Phone: 610	-374-5129 FA	XX: 610-374-72	34			ON: V	White: R	eport; Y	ellow: Su	bmitter						Routine	
1. Client (Company or I	Individual):	,		Address:	-815	5 0	2	اعب	hir	RA	C.C.	5	_				Standard QC	
1 City	ot K	oadi	1 l	City: Re	rd in	19		_	`		1 - 1	Phone:	-		FAX:		Data Package	
2. Involce To: (If differe		·	7	Address	<u>~</u>	J											7. Turnaround Ti	
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		- 1		City:	•			State:	· ;	ZIP:		Phone:			FAX:		Standard	
3. Client Project Name	1#: WVC	lerly+	Form+13						_			pled By:		T		- 11 1 200 - 10	RUSH:/	/
Matrix Code (for iter	m 12)	Containe Code	s (for item 13) TYPE	A = Ascorbic	rvative Code	e (for ite T = Na			┨ '		leceipt inf erature @	3.44	۱	a	Ň	Samples Shipped of Method of	r Hand Delivered Shipment:	5.)
DW = Drinking Water	r	2L = 2 Liter	V = VOA vial	C = HCl		E = EC					oles receiv		e7	Ø	N	Tracking #	·	
GW = Ground Water	11	L ≃ Liter	G = Glass	N ≈ HNO3		L = NH			1		le Contai			Ø	N		turn Fee:	_
ww = waste Wate	- 11	500 = 500ml 250 = 250ml	P = Plastic M = Micro	S = H2SO4 P = H3PO4		Z = Zin V = As					s Free of I Seal Intac	,		Y	N	ICE CHES	T NUMBER:	- T
0 = Other 5 し		125 = 125ml	O = Other	H = NaOH		0 = Ot		71101	17		L INSTRU					CHECKEG	uy. ///	
	J	40 = 40ml		M = M	onochloroac													
8. COMPLIANCE PUI		CDIA/A Farma	Danisad			(D I		16	i.									
Public Drink	king Water: PA	SDWA FORMS	Requirea		L	VReal	ty		17							13. Contai	iner: Size / Typ	e
PWSID#					NPI	DE\$			1/6	.						←	• •	
				,				12.		-						14. Preser	vative	
MJRA	9. Sam	iple		10.		11.	-	7	5	_								
ID#	Des	cription				nposit	٩	Matrix	ŧ l									
	 		13-7357	Date	Time	Ö	Grab				hi	- 10	ļ				ses Requested	
35657	Belt-pres	5 5 w/s	e	8-13-13	925			<u>ک</u> ک	4 6	<u> </u>						Form	75	
AFREC)													See	Sheet	
35658							\exists									Also (T	F) Phospho	1005
TUP									+						-	CN (TV	\ ~V	- (
. *					 					-		 						
35654					<u> </u>			\dashv				 					rease (fler	
ASTM				ļ	 							-	-			10, V	soul-Co	olor
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												ĺ						
relia" :												1				\sim		
18. RELINQUISHED	DBY ,			19. RECEI	VED BY		1				0	ATE		TIME		Entered by	Approved by:	TST hrs
	J6/1	1		1	BIA					****	8/	4/13	3 6	745		Comments:		
/	TV//			/	1110	4		~~~			1	Juli	2	1440			i esta	i.
The Client, by signing	ng, or having client'	s agent sign, this	Chain of Custody F	orm, agrees to	ay for the a	bove re	aueste	ed servic	es per t	he MJRA	Price List	or Quotat	tion prov			and all attorney fees	if collection becomes ne	and the same of the same of the same

Form 43 and Form U analysis updated 9/12/07

Total Metals: Arsenic, barium, cadmium, chromium, copper, lead, mercury. molybdenum, nickel, selenium, silver, zinc На Ignitability Reactive Sulfide and Reactive Cyanide Free Liquids PCB's Total solids Total volatile solids Oil and Grease and Total Petroleum Hydrocarbons ASTM - report as mg/L Hq COD TS Oil and Grease and petroleum hydrocarbons Ammonia-Nitrogen TCLP - include all parameters found in 40 CFR 261.24 as well as pH of extract. Report all results in mg/L pH of extract Arsenic Cadmium Barium Copper Chromium Lead Iron Mercury Nickel Silver Selenium o,m,p Cresols Zinc 1,4-Dichlorobenzene Cresol Hexachlorobenzene 2,4-Dinitrotoluene Hexachlorobutadiene Hexachloroethane Pyridine Pentachlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Carbon Tetrachloride Benzene Chlorobenzene Chloroform 1,1-Dichloroethylene 1,2-Dichloroethane Tetrachloroethylene Vinyl Chloride Chlordane 2,4-D Endrin Heptachlor (and its Epoxide) Lindane Methoxychlor 2,4,5-TP (Silvex) Toxaphene Methyl ethyl ketone (2- Butanone) Nitrobenzene Trichloroethylene Pyridine

M. J.	Reider Associa	ates, Inc.			CHA	IN OF	CUS	STODY	REC	ORD								1	ŀ
	gelica Street					PI	ea s e F	Print Leg	ibly				R	37	223		Page	<u> </u>	
Readin	g, PA 19611		1		(INS	TRUCTIO	NO 2NC	BACK O	THIS F	ORM)				<u> </u>			6. Report		
Phone:	610-374-5129 F	AX: 610-374-72	234	DIST	RIBUT	ION: W	hite: Re	port; Yelk	w: Subm	nitter							Routine		
Client (Company or Individual):	\bigcirc		Address:	813	5	We	√ڪيا	Inc	to	\sim	54	-					Standar	d QC	
City of	Koadi	w l	City: Rec	idir	7 C1		\sim	ZIP	1		Phone:			FAX:			Data Pa	ackage	
2. Invoice To: (# different from abov	1	7	Address	~	J				-								7. Turnar	ound Time	
						C4	ate:	ZIP			Phone:			FAX:			Standa	rd	
	7 1 :	× 115	City:	,		31	ate:	ZIP						1744.			RUSH:	,	,
	contenty +	FormAs						1		War bridger	pled By:) Vocabi kalanca	a algeria	C	Lasa Sana	and Delivere		KDIAL SE DI
Matrix Code (for item 12)	Containe Code	es (for item 13)	A = Ascorbic	rvative Cod Acid		aS2O3		Sar	nple Kec Temper		ormation		0	39091	MAZE INCHESTIC INCHES - CPUSHFAR	of without the work of the Profession	and Delivere nipment:	u	
DW = Drinking Water	2L = 2 Liter	V = VOA vial	C = HCI		E = El	DTA			Sample	s receiv	ed on ice	e?	\sim	N	Tr	acking #: _			
GW = Ground Water	L = Liter	G = Glass	N = HNO3		L = N	H4Cl			Sample	Contair	ners Inta	ct?	Ø	N	Co	oler Retur	n Fee:		
ww = waste Water	500 = 500mi	P = Plastic	S = H2SO4		Z = Zi	inc Aceta	ite		VOC's F	ree of h	leadspa	ce?	Y	N	IC	E CHEST N	NUMBER:		
S = Soil	250 = 250ml	M = Micro	P = H3PO4		V = A:	scorbic/H	1CI		COC Se	al Intac	t or attac	hed?	100 K. Y	N.S.	Ch	ecked by:	The		
0 = Other 51 Jdge	125 = 125ml	O = Other	H ≃ NaOH	onochloroad	O = 0			17. S	PECIAL I	NSTRU	CTIONS/	COMME	NTS:						
8. COMPLIANCE PURPOSE:	40 = 40ml			onochioroac	celic Ac	JIU	16.	=											
Public Drinking Water	: PA SDWA Forms	Required		ПЕН	A/Rea	iltv	1.0.	1											
l L		, , , , , , , , , , , , , , , , , , , ,				,	,	4							13. C	ontaine	er: Size	Type	
PWSID#				NP	DES		iner	10							<==		41.40		·
	Cla						Containers								14. P	reserva	ative		
	Sample		10.	1	11	1.	─ 5	55-red (\$44)	Frio 1.280 S.	500 500 415		san seel	-45J-438	- Navid-VIPC					
ID# 🖟	Description				Composite	ا و	Matrix Total #										_		
		12 136	Date	Time	5	Grab							50,00		15.	Analyse	es Reque	sted	
35657 TRULY	res slud	15-4001	8-13-13	925	هما	اُدُ	2 4	14							For	-m	45) .	
AsRec)	V 12													5 رھ	Rei	#	
						1									Also	(-1-)	Phos	ohorou)<
35658						-							-	ļ			7~1	1	_
TCUP :										_						(TVI		<u>jenak</u>	
35659															O.L.	+6re	easel	flemo	Stlke
ASTM															T5.		scal		
	Terific construction is a second														Ra	70(Bisi	2)	
															0.5				
44					-	++		-		 			<u> </u>			~			

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

DATE

TIME

Commenç

945

19. RECEIVED BY

18. RELINQUISHED BY

Form 43 and Form U analysis updated 9/12/07

```
Total Metals: Arsenic, barium, cadmium, chromium, copper, lead, mercury.
molybdenum, nickel, selenium, silver, zinc
Ha
Ignitability
Reactive Sulfide and Reactive Cyanide
Free Liquids
PCB's
Total solids
Total volatile solids
Oil and Grease and Total Petroleum Hydrocarbons
ASTM - report as mg/L
      рН
      COD
      TS
      Oil and Grease and petroleum hydrocarbons
      Ammonia-Nitrogen
TCLP - include all parameters found in 40 CFR 261.24 as well as pH of extract.
Report all results in mg/L
            pH of extract
                                                   Arsenic
            Barium
                                                   Cadmium
            Chromium
                                                   Copper
            Iron
                                                   Lead
                                                   Nickel
            Mercury
            Selenium
                                                   Silver
            Zinc
                                                   o,m,p Cresols
                                                   1.4-Dichlorobenzene
            Cresol
                                                   Hexachlorobenzene
            2.4-Dinitrotoluene
            Hexachlorobutadiene
                                                   Hexachloroethane
            Pentachlorophenol
                                                   Pyridine
                                                   2,4,6-Trichlorophenol
            2,4,5-Trichlorophenol
                                                   Carbon Tetrachloride
            Benzene
            Chlorobenzene
                                                   Chloroform
                                                   1,1-Dichloroethylene
            1,2-Dichloroethane
           Tetrachloroethylene
                                                   Vinyl Chloride
           Chlordane
                                                   2,4-D
           Endrin
                                                   Heptachlor (and its Epoxide)
                                                   Methoxychlor
           Lindane
           Toxaphene
                                                  2,4,5-TP (Silvex)
           Methyl ethyl ketone (2- Butanone)
                                                  Nitrobenzene
           Trichloroethylene
                                                  Pyridine
```



M.J. Reider Associates, Inc.



4th atr

Attention: Amy L. Morriss

Reported to: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

DEPT. OF PUBLIC WEEK KS

Date of Report:

10/17/13

Lab ID:

0124-13-0044517

Date Collected:

10/02/13 09:20

Collected By:

Client

Date Received:

10/02/13 14:55

Sample Description: 13-9148 Biosolids (Quarterly Composite)

* Results Expressed as Dry Weight			Detection		Test	Test	
	Results	Unit	Limit	Procedure	Date	Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	2	* mg/kg	2	DEP 1	10/08	17:08	jcl
Cyanide, Total	5.0	* mg/kg	2.0	10204001x	10/08	17:08	jcl
Phenols (4AAP)	50.5	* mg/kg	5.00	EPA 420.4	10/08	13:16	JCL
Phosphorus as P, Total	17600	* mg/kg	625	SM 4500P-E	10/03	11:30	ald
PHYSICAL							
Visual Color	Dark Brown	color	1	VISUAL	10/16	13:40	jxs
RESIDUES							
Total Solids	20.0	%	1	SM 2540G	10/04	12:05	tmh
J""PGANIC							
ſAL							
Chromium, Total	108	* mg/kg	2.50	SW846 6010	10/04	10:34	lna
Silver, Total	7.0	* mg/kg	2.5	SW846 6010	10/07	10:10	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	25120	* mg/kg	1250	EPA 1664	10/08	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	7750	* mg/kg	1250	EPA 1664	10/08	11:00	WXC
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<25.0	* mg/kg	25.0	SW846 8270	10/14	20:07	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	10/11	09:00	mcm
COMMENTS:							

^{1 -} The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:

Amy L. Morriss - City of Reading WWTP

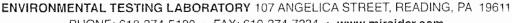
M. J. Reider Associates, Inc. Reviewed and Approved By:

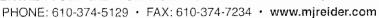
[®]Richard Wolfe

Technical Director

Page 1 of 1









M. J. F	Reider Associ	ates, Inc.			CHAI	IN O	F CU	STODY	REC	ORD									,
	elica Street							Print Leg	, ,				R	37	924			ge of	f
Reading	, PA 19611				(INST	RUCT	IONS O	N BACK O	F THIS F	ORM)		l			<u> </u>		 	oort Type:	
Phone:	610-374-5129 F	AX: 610-374-7	234	DIST	RIBUTIO	ON: V	Vhite: Re	eport; Yello	w: Subm	itter							Roi	utine	
Client (Company or Individual):			Address:													ě	Sta	ndard QC	
City of Rea	dina		City:			s	tate:	ZIP			Phone:			FAX:		-,-	Dat	a Package	
2. Invoice To: (If different from above)		Address:													, i		naround Tim	ne
` ~																	V		
Quar	tery	***************************************	City:			S	tate:	ZIP	:		Phone:		- +	FAX:	1	<u> </u>	/ Sta	ndard	
3. Client Project Name / #:	124/	ral	4. P.O. No.:							5. Sam	pled By:	C	<u>St</u>		1,74		RU	SH:/_	
Matrix Code (for item 12)	Container Cod	les (for itern 13)		rvative Code				Sar	nple Rec	NOT THE IS NOT THE REST.	Seller STONES		\sim	2 2 2 2 2 2 2 2		Shipped or			
	SIZE	TYPE	A = Ascorbic		T = Na			460	Temper	Hell Card Sasork	As a Guerra		(2)	N	THE PROPERTY OF SECURITION AND ADDRESS.	Method of	the other control of the state of the	and the second s	
DW = Drinking Water	2L = 2 Liter	V = VOA vial	C = HCI		E = ED				Sample	Far Land	A DOMESTIC	SE PLEASE.	B.	N	ARTEMATICAL CHARGES	A	STATE OF THE STATE		
GW = Ground Water	L = Liter	G = Glass	N = HNO3		L = NH		ole		Sample	No STANCES	Wylot Paris		ಳ	N N		Cooler Ret	UTN FEE: T NIIMBED		
ww = waste Water S = Soil	500 = 500ml 250 = 250ml	P = Plastic M = Micro	S = H2SO4 P = H3PO4		Z = Zin V = Asc				APACL STREET, A	12/12/2019 15/19	leadspac or attac	20 September 1	Ÿ	Ň		Checked b) AG	
	125 = 125ml	O = Other	H = NaOH		O = Otl		1101	17 8	PECIAL I	3 - July 1911			4.46.36.49.25.	Company of the second		OHOUREU D			
O = Other	40 = 40ml	0 - Other	II	onochloroac				17. 31	COIAL	NOTROC	TIONSA	OWNING	1413.						
8. COMPLIANCE PURPOSE:							16	=											
Public Drinking Water:	PA SDWA Forms	s Required		FHA	\/Realt	ty	-												
								, 1/							13.	Contair	ner: Si	ze / Type)
PWSID#				NPE	DES		12.	16							\				
															14.	Preserv	vative		
MJRA 9. S	ample		10.		11.	_	12.			, , , , , , , , , , , , , , , , , , , ,					<u></u>				
ID# D	escription				osite			19861694							П				
	·		Date	Time	Composite	Grab	Matrix Total #								15.	Analys	ses Rec	quested	
44517 13-9	1450 0 0	110	11/10	000	X		Λ	2											1. Tut
144517 13-9	148 8,05	ulias	192/13	920	Δ		0	12							179,C	r, tho	sphons	$\frac{1}{1}$	Janiolo Fi
			,												Phe	2160			Janiedo F.
															0/4	Hem	+567	- Her	70 (4.52)
															13	Vicin	1-01.	. 02:	70/402
									-						10	1 11504	1-6:10	C; 87	10/9.52
							13	1-31											
277,38677 1981 1971						-													

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

19. RECEIVED BY

18. RELINQUISHED BY

PAG

DATE

Approved by: TST hrs

Entered by

Comments

1935



M.J. Reider Associates, Inc.



4th atr

Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

10/31/13

Lab ID:

124-13-0047936

Date Collected:

10/21/13 10:38

Collected By:

CLIENT

Sample Desc: GC 13-9823					Date Rece	eived:	10/23	3/13 14:45
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY	~							
COLORMETRIC								
Phosphorus as P, Total	7.5	mg/L	.5	10	SM 4500P-E	10/24	11.30	ALD
INORGANIC		9/ •	.,	10	311 13001 2	10/24	11.50	7,20
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.099	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	0.0009	mg/l	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.02	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.196	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.2	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by:

Technical Director

Page 1 of 1





M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: GC 13-9825

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

10/31/13

Lab ID:

124-13-0047937

Date Collected:

10/22/13 10:40

Collected By: CLIENT

Date Received:

10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	0.060	mg/l	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	20	mg/l	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	10/24	12:00	WXC

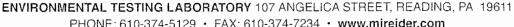
Distribution of Reports:

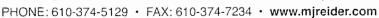
Reviewed and Approved by:

Technical Director

Page 1 of 1









	M. J. Reider	Associa	tes, Inc.			CHA	IN OF	<u>.</u>	FOD	Y REC	ORD							1
	107 Angelica Str				Pleas					gibly				R	38	3485	Page 4_ of 4_	1
	Reading, PA 196	611				(INST	RUCTIO	O SMC	N BACK	OF THIS	FORM)					7400	6. Report Type:	-
	Phone: 610-374-	-5129 FA	X: 610-374-72	234	DIST	RIBUTI	ON: W	hite: R	eport; Yel	low: Subi	nitter	- Ĵ-					Routine	1
1. Client (Company or I	Individual):			Address:	215	し	Oa	_5h	LINC	10	n	3T					Standard QC	
C:+1 0	of head	m		City: Doa	den					194					FAX	:	Data Package	
2. Invoice To: (If differe		0		Address:	`	7											7. Turnaround Time	
Quarter	Ч			City:			Sta	ate:	ZI	P:		Phone:			FAX	-	Standard	
3. Client Project Name	1# Lab #	-124		4. P.O. No.:							5. San	npled By	: <u>C</u> S	57			RUSH:/	
Matrix Code (for iter	' II	tainer Codes	s (for item 13) TYPE	Prese A = Ascorbic	rvative Cod	e (for ite T = Na			Sa	mple Re	ceipt Inf rature @	2 14 (\$5.5 to 1/4)	n	<i>ତ</i>	N	Samples Shipped or F Method of S	land Delivered hipment:	
DW = Drinking Water		2 Liter	V = VOA vial	C = HCI	Acid	E = ED				10 to 41 75 7	es receiv		:e?	ď	N			
GW = Ground Water	ll l	Liter	G = Glass	N = HNO3		L = NH				V. O'SSCHOOLSTEEL GO	Contai	WARY OF JUST 18 TO		ø	Ň	5-2-58 bi (4-6-6-2);	rn Fee:	
ww = waste Water	ł	500ml	P = Plastic	S = H2SO4		Z = Zin		te			Free of I	to Sur Pink	10 THE R. P. LEWIS CO., LANSING, MICH.	Y	N	ICE CHEST	NUMBER:	1
S = Soil	250 =	250ml	M = Micro	P = H3PO4		V = As	corbic/H	ICI		cocs	eal Intac	t or atta	ched?	Y	N	Checked by	118	1
O = Other	125 =	125mi	O = Other	H≃ NaOH		0 = 0	her		17.5	PECIAL	INSTRU	CTIONS	/COMME	ENTS:			,	
		40ml		M = M	onochloroad	etic Aci	đ											
8. COMPLIANCE PUR		/A C	D in al			۸ /۲۵ ۱۷	. .	16										1
Public Drink	king Water: PA SDW	VA FORMS	Requirea			A/Real	ıy	- [1	1 . 7	7011	100.11	. , , T		13 Contain	er: Size / Type	-
PWSID#					NPI	DES		2.	37/2	Sool	16	1/2	QU/	76		14. Preserv		1
MJRA	9. Sample			10.		11.	. 1			5		1/4	5	C		14. Preserv	ative	
ID#	Descrip	tion				site		~ *	► 2.5 € 5					SANA!		П		1
	Descrip			Date	Time	ошью	Grab	Matrix								U 15. Analys	es Requested	
47936	GC 13	982	ス	10-21-13		¥	W	1 4	Π.				234547 83	55.750,1300	S. Simples.	1		TA
	GC 13	100		10.510	10	^	v	1 2				 				HSING CAILE	10, 15, 10, 10, 10, 10. 20	- /-
																Phisphore	(T) (T) MO, N. 20	1 6
		1		1 1	1						1					625 (B.		
47937	GC 13-9	000		10-22/13	1040		X	ر کر	5			2					Total + Free	7/4
	10-10-1	865		17	1								1		****	Phenols	TOTAL CONTRACTOR OF THE PARTY O	2
										1-	 		†	2			use HEMI SOTHEM	g
				<u> </u>							-			0		O. I and Gree	use 10 301 HGm	- 10
											-		<u> </u>					
18. RELINQUISHED	BY /			19. RECEI	VED BY							ATE		TIME		Entered by: 27	Approved by: TSThrs	
	JON			1.//							10-	221	3	113	5	Comments:		200
												23-13						



Attention: Amy L. Morriss

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4h Atr

Date of Report:

10/31/13

Lab ID:

124-13-0047934

Date Collected:

10/21/13 08:12

Collected By:

CLIENT

Sample Desc: FC 13-9812					Date Rece	eived:	10/23	7/13 14:45
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.2	mg/l	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC						·		
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.027	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.03	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.058	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Richard Wolfe Technical Director

Page 1 of 1





M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: FC 13-9813

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601

Date of Report:

10/31/13

Lab ID:

124-13-0047935

Date Collected:

10/22/13 08:02

Collected By:

CLIENT

Date Received:

10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/l	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	<.01	mg/l	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by

Richard Wolfe Technical Director

Page 1 of 1



M. J. R	eider Associates, Inc.		CHA	AIN (OF (TODY	REC	ORD							_ /. /
	elica Street				Please	e Pr	rint Legi	bly				R	38	3482	Page of	24
Reading,	PA 19611		(INS	TRUC	TIONS	ON E	BACK OF	THIS F	ORM)					7402	6. Report Type:	20 1
Phone: 6	10-374-5129 FAX: 610-374-7	234 [DISTRIBUT												Routine	
Client (Company or Individual):		Address:	\$15	(V	ash	ابر ،	1+n	5+							Standard QC	
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(8		Otato.	100	<u> </u>	1,0								
2. Invoice To: (If different from above)	1 1	Address:													7. Turnaround Tim	e
() ya	rterly	City:			State:		ZIP:			Phone:			FAX:	:	Standard	
3. Client Project Name / #:	124 Las	4. P.O. No.:							5 . Sam	pled By:	\leq 5	I			RUSH:/_	/
Matrix Code (for item 12)	Container Codes (for item 13)	Preservative				\dashv	No. 175 Re-south a		1.0940400	ormation		S		Samples Shipped or Method of S	化二氯甲基甲基异苯甲基甲基异苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
DW = Drinking Water	SIZE	A = Ascorbic Acid C = HCl	E=E	aS2O3 DTA	3		스 맛을 보다		ature @	ed on ic	e?	De	N	THE WELL REPORTS IN A	siipiileit.	
GW = Ground Water	L = Liter G = Glass	N = HNO3	L = N			- 1	- A	William San P.	the first of the second of	ers Inta	SEWER S	P	N	하다 하나 없는 아래를 가게 되는 않는다.	ırn Fee:	
ww = Waste Water	500 = 500ml P = Plastic	S = H2SO4	Z = Z	inc Ac	etat e	١		VOC's F	ree of H	leadspa	ce?	Y	N	ICE CHEST	NUMBER:	
S = Soil	250 = 250ml M = Micro	P = H3PO4	V = A	scorbi	c/HCI	١	100	COC Se	al Intaci	or attac	hed?	Y	N	Checked by	- 13 P	
O = Other	125 = 125mi O = Other 40 = 40ml	H = NaOH		Other			17. SPI	ECIAL !	NSTRU	CTIONS	COMME	NTS:			•	
8. COMPLIANCE PURPOSE:	40 = 40mi	M = Monochio	roaceuc A	Ciu		16.										
Public Drinking Water: F	PA SDWA Forms Required		FHA/Rea	alty												
						_φ	7/	2/10	G/L	8/20	6/10	(21/.		13. Contair	ier: Size / Type	
PWSID#			NPDES			ainer	1500	P/512	/ <u>L</u>	1/520	150	75		14. Preserv	rativo	
MJRA 9. Sa	ample	10,	1 1	1.	12.	Containers	N	5		1/A	5	C		C	alive	1
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De De	escription		sodw	Grab	Matrix	Total #								Analys	as Paguastad	
	- 0.0010	Date Tim			∑ W					36500		De William	100 100 100 100 100 100 100 100 100 100		es Requested	
47974 鬼/	C13-9812	10/21/13/812	_ X		W	3								As Ha Cd. Cr	(CU, H5, 75, MO	N,2n
	ì	10/21/13/817						i						Phosphorus	<u>ا</u> ا	' ' l
The state of the s		1////	(<u> </u>	i					1 1 2 2 1	\ -	
4		10/21/13/812												625 (8)	5 7)	
47935	~ 13-9813	10/22/13 8	2	X	3	5				2				Cyande T	otal + Free	·
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4		10/24/3 0										2		O. land Gr	reuse Hemos	ict HEm
		117														
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		`.														
18. RELINQUISHED BY		19. RECEIVED BY	,				LL		D	ATE		TIME		Entered by: 05/	Approved by:	TST hrs
Id W		1///								22-1	3	945				
1 M		1 1/1/15							7.	23-1)		445	-	Comments:		
The Client by signing as begins all	ent's agent sign, this Chain of Custody	Form agrees to new feet	ho obour	nour no	od ser	doc *	nor the M	UDA D-					ding or:	and all atternou for all	collection becomes	ACCOR.
The Cheff, by signing, or having cit	ent a agent aigh, this Chain of Custody	i oini, agrees to pay for t	ue anove t	equesi	eu serv	ices	ber the M	IN A FI	CC LISE (, Guotat	IOH PROVI	aca mol	uning any	and an audiney lees it	conscion becomes nece	asaiy.



Attention: Amy L. Morriss

Sample Desc: 6th 13-9826

Reported To: City of Reading WWTP

c/o City Hall

815 Washington St. Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th atr

Date of Report:

10/31/13

Lab ID:

124-13-0047927

Date Collected:

10/21/13 10:53

Collected By:

CLIENT

Date Received:

10/23/13 14:45

			Pon	Dilutn		Test	Test	
	Result	Unit	Rep. Limit	Factor	Procedure	Date	Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.3	mg/l	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	0.012	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.048	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.200	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	7.2	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION		·				ŕ		
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by

Richard Wolfe Technical Director

Page 1 of 1

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: 6th 13-9828

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

Lab ID:

124-13-0047928

Date Collected:

10/22/13 10:56

Collected By:

CLIENT

10/31/13

Date Received:

10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/l	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.010	mg/l	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	0.095	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	30	mg/l	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

7/1 1/1/1/1/1/

Richard Wolfe Technical Director

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ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611 PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com



f	MID	eider Associa	ates Inc	<u>-</u>		CHA	INI C	SE C		<u> </u>	/ DEC	ORD						
		elica Street	1165, IIIC.			СПА				rint Leg		UKD			Б	20	101	Page 3 of 4
	-	, PA 19611				(INS				-	F THIS F	ORM)			R	36	3484	6. Report Type:
	Phone: 6	310-374-5129 F	AX: 610-374-72	234	DIST	rRIBUT	ION:	White:	Rep	ort; Yello	w; Subr	nitter						Routine
Client (Company or I	ndividual):			Address:	5	115	١ (1)(2.4	She	wit	en	5	+				Standard QC
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		ading		City:	oco CC	روس		State:	<u>C.</u>	ZIP	116	3U(Phone:			FAX	:	Data Package
2. Invoice To: (If differe				Address: \														7. Turnaround Time
Quart				City:				State:		ZIP	:	I	Phone:			FAX	:	Standard
3. Client Project Name	1#: La			4. P.O. No.:									pled By		rt _			RUSH:/
Matrix Code (for iter	n 12)	Container Code SIZE	es (for item 13)	Prese A ≃ Ascorbic	ervative Coo		lem 14 aS2O3			Sar	L. Commercial	ceipt Info rature @	017 F V. 101 &	n	Ø		Samples Shipped of Method of	or Hand Delivered of Shipment:
DW = Drinking Water		2L = 2 Liter	V = VOA vial	C = HCI	. 1010	E≖E					(2c) 13221b	s receiv		:e?		N		# 34
GW = Ground Water		L = Liter	G = Glass	N = HNO3		L = N	H4Ci				Sample	Contail	ners Inte	act?	D X	N	어머니는 사람이 가게 다시하다.	eturn Fee:
ww = Waste Water	·	500 = 500ml	P = Plastic	S = H2SO4			inc Ace					Free of I		altigation from	이번째 하다.	N	ICE CHE	ST NUMBER:
S = Soil		250 = 250ml	M ≈ Micro	P = H3PO4			scorbi	c/HCI				eal Intac	i iii adaanaa ji		Ϋ́	N	Checked	of 35°
O = Other		125 = 125ml 40 = 40ml	O = Other	H = NaOH M = M	o n ochl o roa	O = C cetic Ac				17. 51	PECIAL	INSTRU	CHONS	COMM	EN15:			
8. COMPLIANCE PUR								T	16.									
Public Drink	ing Water: F	PA SDWA Forms	Required		FH.	A/Rea	ilty	ı										
PWSID#					MP NIP	DES			ers	520	50%	1/	10/2	50%	1/6		13. Conta	iner: Size / Type
1 WOID #						DLO		- 1	Containers	-		/-	 	<u> </u>	<u> </u>		14. Prese	rvative
MJRA	9. S a	ample		10.		1	1.	12.	f Cor	Ŋ	5		*/A	5	0		←	
ID#	De	escription				Composite		×	l # of					34.5			П	
				Date	Time	Comp	Grab	Matrix	Total			100 m					15. Analy	yses Requested
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18. RELINQUISHED	ВУ			19. RECEI	VEO BY	_							ATE		TIMI		Entered by: 2/1	Approved by:hrs
						-						10-	-27H	3	1430		Comments:	

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



Attention: Amy L. Morriss

Sample Desc: RC 13-9819

Reported To: City of Reading WWTP

c/o City Hall

815 Washington St.

Reading PA 19601

CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th atr

Date of Report:

10/31/13

Lab ID:

124-13-0047929

Date Collected:

10/21/13 08:45

Collected By:

CLIENT

Date Received: 10/23/13 14:45

							•	•
			Rep.	Dilutn		Test	Test	
	Result	Unit	Limit	Factor	Procedure	Date	Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.4	mg/L	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	0.007	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.040	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.175	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.0	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

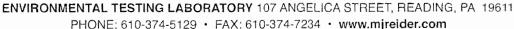
Reviewed and Approved by:

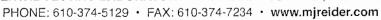
Technical Director

Page 1 of 1

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CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss

Sample Desc: RC 13-9822

Reported To: City of Reading WWTP

c/o City Hall 815 Washington St. Reading PA 19601 Date of Report:

10/31/13

Lab ID:

124-13-0047930

Date Collected:

10/22/13 08:48

Collected By: CLIENT

Date Received:

10/23/13 14:45

	Result	Unit 	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001x	10/29	11:13	JCL
Phenols (4AAP)	0.079	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	23	mg/L	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe Technical Director

Page 1 of 1

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	MIR	eider Associa	tos Inc		T		СНА	IN C)F (;	ODY	REC	ORD					<u> </u>	
		elica Street	ites, iiic.		1						nt Leg		OND		[D	30	483	Page 2 of 4
	Reading,	PA 19611			1		(INS)	RUCT	TIONS	ON B	ACK OF	THISF	ORM)		Į	П	30	403	6. Report Type:
	Phone: 6	10-374-5129 FA	X: 610-374-72	34		DIST	RIBUT	ON:	White:	Repo	rt; Yello	w: Subm	nitter						Routine
1. Client (Company or I		í		Address		815	C)Ce	-5h	9	uce	tos	$a \in$	5					Standard QC
()+4	of V	ending		City:	R	pad	u	(State:	ん	ر ZIP:	196	0	Phone:			FAX:		Data Package
2. Invoice To: (If differe		<u> </u>		Address	.)														7. Turnaround Time
\wedge	varter	ly.		City:	1				State:		ZIP:			Phone:			FAX:		Standard
3. Client Project Name		24 Las		4. P.O.	No.:								5. Sam	pled Ev	\$7				RUSH://
Matrix Code (for iter		Container Code	s (for item 13)			rvative Cod					and the last	A Charles and	eipt Info			\sim		Samples Shipped o	
DW = Drinking Water	·	SIZE 2L = 2 Liter	TYPE V = VOA vial	A = As	scorbic / Cl	Acid	T = Na E = Ef				27.63 - 9.0		ature @ s receive	A 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e ?	Q	N N	Method of Tracking	f Shipment: #
GW = Ground Water	17	L = Liter	G = Glass	N = H			L = NH				1 1 1 1 1 1 1 1 1 1	t 2002 9 9 9	Contain			(8)	N		eturn Fee:
ww = waste Water	r	500 = 500ml	P = Plastic	S = H2			Z = Zi			- 1	100	Ta 100 (14 7/6	ree of H	APPENDICT STATE	E 400 States		N	ICE CHES	ST NUMBER:
S = Soil		250 = 250ml	M = Micro	P=H3			V = As		/HCI	-		-	al Intact			Υ	N	Checked	t y [/ 5]
O = Other		125 = 125ml 40 = 40ml	O = Other	H≂Na		onochloroac	O = O			- -	17. SP	ECIAL	INSTRUC	CTIONS	COMME	NTS:			
8. COMPLIANCE PUR	RPOSE:	40 - 401111			101 - 1010	onochioroac	ello Ac	iu .	T	16.									
Public Drink	king Water: F	PA SDWA Forms	Required			FHA	\/Rea	lty	- 1										
PWSID#			<u></u>			NPI	DES			ners	50%	52%	16	16	3/6	1/6-		\	iner: Size / Type
		ımple		T			11		12.	of Containers	N	5		t/A	<	C		14. Presei	rvative
MJRA]	-			10.		te			tof		FRAS		344.35	AMM		19099	7	
JD#	De	escription		Da	ate	Time	Сотроя	Grab	Matrix	Total #								15. Analy	ses Requested
47929	RC 1	3-9,819		10.7	NB.	345	X		22	3	}							A5, A5, Cd, Co	r, Cu, Hg, Pb, Mo, N: , 2n
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		,		سنت												2		O. land	wease HEND HEM
		-20-																	
18. RELINQUISHED	DBY /	7A Y		19.	RECEI	γ€0 BY							D.	ATE		TIME		Entered by: 09/1	Approved by: TST hrs

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

10-23-13

DE

Comments:

2013 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND PLANT EFFLUENT

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 2/5/13 AND 8/13/13

Mercury Testing for 2013 at Plant Influent Points and Plant Effluent

	_	Cail						
D-4-	l	Grit		6th Street		Influent	İ	Effluent
Date	l	Chamber		mg/L	1	mg/L	l	mg/L
	!	mg/L			<u> </u>			
01/01/13	<	0.0001	<u> </u>	0.0001	<u> </u>	0.0001	<u>`</u>	0.0001
01/02/13	<	0.0001	<u> </u>	0.0001	<u> </u>	0.0002	<u>`</u>	0.0001
01/08/13	<	0.0001		0.0002	<	0.0001	٧	0.0001
1/15/2013	<u> </u>	0.0002	Automobile De	0.0001		0.0002	<u> </u>	0.0001
1/22/2013	<	0.0001			<	0.0001	<	0.0001
1/24/2013		ACTION STATE OF THE PARTY OF TH	٧	0.0001		"Same contraction to the Contraction of the Contraction of		
1/29/2013	_	0.0001		0.0001	L	0.0002	٧	0.0001
2/6/2013	<	0.0001	<	0.0001	<	0.0001	_	0.0001
2/7/2013	<	0.0001	_<	0.0001		0.0001	٧	0.0001
2/12/2013	<	0.0001	<	0.0001	<	0.0001	<	0.0001
2/13/2013	<	0.0001	<	0.0001	<	0.0001	<	0.0001
2/19/2013		0.0006	<	0.0001	<	0.0001	٧	0.0001
2/26/2013		0.0001	<	0.0001	<	0.0001	٧	0.0001
3/5/2013		0.0003	٧	0.0001	٧	0.0001	٧	0.0001
3/6/2013		0.0002	'	0.0001	٧	0.0001	٧	0.0001
3/12/2013		0.0011		0.0001		0.0003	٧	0.0001
3/19/2013	<	0.0001	<	0.0001		0.0002	٧	0.0001
3/26/2013	<	0.0001		0.0003		0.0001	<	0.0001
4/2/2013	<	0.0001	<	0.0001		0.0001	٧	0.0001
4/3/2013		0.0001		0.0009		0.0005	<	0.0001
4/9/2013	<	0.0001	<	0.0001		0.001	٧	0.0001
4/16/2013		0.0001	~	0.0001		0.0004	٧	0.0001
4/23/2013		0.0003		0.0002		0.0002	٧	0.0001
4/24/2013	<	0.0001		0.0001	<	0.0001	٧	0.0001
4/30/2013		0.0003	<	0.0001		0.0001	٧	0.0001
5/7/2013	<	0.0001		0.0002	<	0.0001	٧	0.0001
5/14/2013		0.0001	<	0.0001		0.0002	٧	0.0002
5/15/2013		0.0001		0.0003		0.0002	٧	0.0001
5/21/2013		0.0002		0.0001		0.0002	٧	0.0001
5/28/2013		0.0005		0.0001		0.0002	٧	0.0001
6/3/2013		0.0003		0.0001		0.0001	'	0.0001
6/4/2013		0.0004		0.0001		0.0002		0.0001
6/11/2013		0.0004		0.0002		0.0002	٧	0.0001
6/18/2013		0.0007		0.0004		0.0003	٧	0.0001
6/25/2013		0.0004		0.0005	٧	0.0001	٧	0.0001
7/2/2013		0.0001		0.0001	٧	0.0001		0.0001
7/9/2013		0.0002	٧	0.0001		0.0002	٧	0.0001
7/11/2013		0.0006	٧	0.0001		0.0001	٧	0.0001
7/16/2013		0.0004	٧	0.0001		0.0001	٧	0.0001
√7/23/2013	<	0.0001	٧	0.0001		0.0003	٧	/ 0.0001
7/30/2013		0.0002		0.0002	٧	0.0001	٧	0.0001
8/6/2013		0.0002		0.0002	'	0.0001	<	0.0001
8/14/2013		0.0002		0.0001		0.0004	٧	0.0001
8/20/2013		0.0001	٧	0.0001		0.0002	<	0.0001
8/28/2013	<	0.0001		0.0001		0.0003	~	0.0001
0/20/2013	$\stackrel{\sim}{}$	0.0001		0.0001		0.0003	_	0.0001

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
9/3/2013		0.0005	<	0.0001		0.0006	<	0.0001
9/4/2013		0.0006	<	0.0001		0.0004	<	0.0001
9/10/2013		0.001	٧	0.0001		0.0003	<	0.0001
9/17/2013	<	0.0001	'	0.0001		0.0026	<	0.0001
9/24/2013		0.0004		0.0002		0.0003		0.0002
10/1/2013		0.0002		0.0005		0.0004	<	0.0001
10/7/2013		0.0002		0.0002		0.0004	<	0.0001
10/8/2013	\	0.0001		0.0002		0.0002	<	0.0001
10/15/2013		0.0002		0.0003		0.0003	<	0.0001
/ 10/21/2013		0.0009	<	0.0001	<	0.0001	<	0 .0001
10/29/2013		0.0001		0.0002		0.0002	<	0.0001
11/5/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
11/6/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
11/12/2013	<	0.0001		0.0001		0.0002	<	0.0001
11/19/2013		Tall and		0.001		0.0006	<	0.0001
11/20/2013		0.0001	$h = \frac{1}{2}$	7		(4)		
11/26/2013	٧	0.0001	٧	0.0001		0.0002	<	0.0001
12/3/2013		0.0001		0.0003		0.0003	<	0.0001



Phone: 814-863-0841 Fax: 814-863-4540 Web: www.aasl.psu.edu PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601 Lab Sample ID: Date Received:

E15643

eived:

January 7, 2013 1/2/13

Date Sampled: Report Date:

1/29/13

Sample type:

Composite

County:

Customer Sample ID:

Belt press sludge 13-69

Ŧ	RES	(I)	П	۲.

pН	Solids	Volatile	Tot-N	Org-N	NH ₄ N	I P	K	Mg	Ca	Na	Fe	Al
② 21.9 C8.1	— % — 18.78	64.04	5.44	4.46	0.98		y weight bas 0.12	o.43	9.89	0.12	1.29	0.86
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
					mg/k	g (dry weigl	ht basis) 🧻					
1668.9	3.52	4.36	105.9	517.7	139.3	1.22	61.1	62.8	6.22	1521.5	< .14	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1277 gallons of wet material or 5.3 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N 5.44

dry tons of this biosolid will supply 100 lbs of total N.

 P_2O_5 5.01 2.28 dry tons of this biosolid will supply 100 lbs of P

0.92

K₂O 0.15

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	1/25/2013	6:44:40
As	3050B + 6010	Brooks	1/25/2013	6:44:40
Se	3050B + 6010	Brooks	1/25/2013	6:44:40
Hg	7473	Rishel	1/11/2013	1:21:29 PM
PCB ¹	8082			

RAW LABORATORY	BENCH DATA FOR EPA 503 POLLUTANTS	

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.175	2.175	2.175	0.258	2.175	2.175	2.175	2.175	2.175	
Analyte conc. in sample/ digest (mg/L except Hg)	0.029	0.036	4.23	0.059 ug	0.50	0.51	1.14	0.05	12.43	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	Sample Receipt			
(mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As = 3.52		:		75	
Cd 4.36	0	39-4-11 		85	
Cu 517.7		1500		4300	
Pb 139.3	0-	300		840	
Hg1.22				57	
Mo 61.1	0	75	anger en en		
Ni 62.8	0-	420			
Se		100			
Zn 1521.5	0	2800		- 7500°	
PCB ¹ < .14	0	4		8.6	200 - 200 -





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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E15695

Date Received: Date Sampled:

February 11, 2013 2/5/13

Report Date: Sample type:

2/27/13 Composite

County:

Customer Sample ID:

13-1135 Belt Press Sludge

R			

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.7 C	- % -					% (dr	y weight ba	sis)				
7.7	15.84	71.54	6.16	5.04	1.12	1.89	0.17	0.40	5.23	0.09	1.04	0.81
Mn	As	Cd	Cr	Cu	Pb	Hg	Мо	Ni	Se	Zn	PCB ¹	Reactive CN_
1437.3	5.38	3.88	98.6	484.8	- mg/kį 143.7	g (dry weig 1.81	ht basis) 56.6	49.6	7.41	1397.3	< .42	< 1

NR-Not Requested

One dry ton of this material is equivalent to 1514 gallons of wet material or 6.3 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

0.81

dry tons of this biosolid will supply 100 lbs of total N.

P2O5 4.32

al N 6.16

2.65

dry tons of this biosolid will supply 100 lbs of P

K,O 0.20

and the state of t	1. 1. 1. 1. 2. 2	이 옷 게 하다면 하는데	1 mars 1 27	e, ideologica (decidente	 1.13 (2.2)
ANAIVCIC	INFORM	LATION FOR	P IP D A 503	POLL	ITANTS '

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	2/15/2013	12:51:05
As	3050B + 6010	Brooks	2/15/2013	12:51:05
Se	3050B + 6010	Brooks	2/15/2013	12:51:05
Hg	7473	Rishel	2/25/2013	1:32:07 PM
PCB	8082			

Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.067	2.067	2.067	0.284	2.067	2.067	2.067	2.067	2.067
Analyte conc. in sample/ digest (mg/L except Hg)	0.035	0.025	3.18	0.082 ug	0.37	0.33	0.94	0.05	9.15
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

	Optional Ana	lyses: Results (except	soluble salts) o	n dry weight basis	Sample Receipt
rate-N €/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As : 5.38		1 90041) 2022 6 90090 4070			
Cd 3.88		39	141 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S. 100 S		773 - 773 - 774 -
Cu 484.8	0	1500		4300E.	
Pb 143.7	0-			840	
Hg 1.81		17	A Second Second	57	
Mo 56.6	0	75			
Ni 49.6	0				2
Se 7.41	0	100	eller der der der der der der der der der d	7 (100,100) - 100,100 - 100,100	
Zn 1397.3	0	2800		7500 =	
PCB ¹ < .42	0	4		8.6	





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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E15773

Date Received:

March 18, 2013

Date Sampled:

3/12/13

Report Date: Sample type:

4/3/13 Composite

County:

Customer Sample ID:

13-2301

RESULTS

pН	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.9 C	— _% —					% (dry	y weight bas	sis)				
8.2	21.12	65.27	5.46	4.61	0.85	2.22	0.10	0.40	8.79	0.11	1.07	0.78
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
					mg/kg	g (dry weigl	ht basis)					
1717.7	5.86	3.74	106.6	502.9	157.2	2.18	72.0	48.1	6.18	1465.5	< .32	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1136 gallons of wet material or 4.7 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

otal N 5.46

(mg/L except Hg)

0.92

dry tons of this biosolid will supply 100 lbs of total N.

dry tons of this biosolid will supply 100 lbs of P

5.09 2.25

K,O 0.12

P₂O₅

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	3/22/2013	10:00:45
As	3050B + 6010	Stecko	3/22/2013	10:00:45
Se	3050B + 6010	Stecko	3/22/2013	10:00:45
Hg	7473	Brooks	3/21/2013	12:49:41 PM
DCD!	0.000			

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS										
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.502	2.502	2.502	0.351	2.502	2.502	2.502	2.502	2.502	
Analyte conc. in sample/ digest (mg/L except Hg)	0.062	0.040	5.31	0.161 ug	0.76	0.51	1.66	0.07	15.49	
Method limit	0.015	0.005	0.015	0.0010 119	0.015	0.010	0.025	0.025	0.050	

Optional Analyses: Results (except soluble salts) on dry weight basis Sample Receipt										
rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature					

	mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As	5.86	O STATE OF THE STA	41	increased monitoring	75 <u>-</u>	Laceda Celling limits
Cd	3.74	0			85	
Cu	502.9	0	1500		- 4300	
Pb	157.2				- 840	
Hg	2.18	0-	17		57	
Mo	72.0	0	75-			
Ni	48.1	0	%420			
Se	6.18	O	100			
Zn	1465,5	0	2800		- 7500	
PCB ¹	< .32	0	4		8.6	



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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E15822

Date Received:

April 15, 2013

Date Sampled: Report Date:

4/9/13 4/29/13

Sample type:

Composite

County:

Customer Sample ID:

13-3183 Belt Press Biosolids

R	ESU	117	ГS

pН	Solids	Volatile	Tot-N	Org-N	NH ₄ N	Р	K	Mg	Ca	Na	Fe	Al
@ 21.9 C	— _% —	~				% (dr	weight ba	sis) —				
8.1	20.10	63.79	4.93	4.14	0.79	2.03	0.12	0.38	7.84	0.11	1.03	0.79
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN_
					mg/kg	g (dry weig	nt basis)					
1872.0	3.83 .	3.64	103.8	441.8	128.9	2.29	69.0	48.7	6.23	1471.7	< .33	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1193 gallons of wet material or 5.0 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

4.93 sotal N

1.01 dry tons of this biosolid will supply 100 lbs of total N.

 P_2O_5 4.66

dry tons of this biosolid will supply 100 lbs of P 2.46

K,O 0.15

ANALYSIS	INFORMATION FOR EPA	503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	4/19/2013	11:01:33
As	3050B + 6010	Brooks	4/19/2013	11:01:33
Se	3050B + 6010	Brooks	4/19/2013	11:01:33
Hg	7473	Rishel	4/22/2013	12:42:11 PM
PCB ¹	8082			

D 4	WILDOD	ATODY DEM	CIIDATA EO	D ED 4 602 I	STILLITANTS

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS										
	As	Cd	Cu	Hg	Мо	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	3.201	3.201	3.201	0.309	3.201	3.201	3.201	3.201	3.201	
Analyte conc. in sample/ digest (mg/L except Hg)	0.049	0.047	5.68	0.142 ug	0.89	0.63	1.66	0.08	18.94	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	Sample Receipt			
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature
					9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

	mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As	3.83	and the control of th	22-41-2		75	
Cd	3.64	0	39 		85	Fight 25 dight.
Cu	441.8	0	1500		4300	
Pb	128.9	0.	300		840	
Hg	2.29	0	17		57	
Мо	69.0	0	75			
Ni	48.7	0	420			
Se	6.23	0	100	en en en en en en en en en en en en en e		der were grown and the department of the second
Zn	1471.7	0-	2800		7500	
PCB ¹	< .33	0	4		8.6	





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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

DEPT. OF PUBLIC WORKS

Lab Sample ID:

E15870

Date Received:

May 20, 2013

Date Sampled: Report Date:

5/14/13 6/5/13

Sample type:

Composite

County:

Berks

Customer Sample ID:

13-4332

RESULTS -

•			Tot-N	Org-N	NH_4N	V P	K	Mg	Ca	Na	Fe	Al
@ 22.3 C	— _% —					— % (dry	weight bas	sis)				
7.9	19.71	59.23	4.91	4.01	0.90	1.73	0.11	1.04	7.50	0.069	1.10	0.80
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive
14111	713	Cu	Ci	Cu		J					TCB	CN
	713	- Cu				g (dry weigl					100	CN

NR-Not Requested

One dry ton of this material is equivalent to

1216 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

4.91 Total N

1.02 dry tons of this biosolid will supply 100 lbs of total N.

 P_2O_5 3.96

2.89

dry tons of this biosolid will supply 100 lbs of P

K,O 0.13

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	5/24/2013	8:36:59
As	3050B + 6010	Stecko	5/24/2013	8:36:59
Se	3050B + 6010	Stecko	5/24/2013	8:36:59
Hg	7473	Rishel	5/24/2013	12:19:51 PM
PCB ¹	8082			

Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.181	2.181	2.181	0.268	2.181	2.181	2.181	2.181	2.181	
Analyte conc. in sample/ digest (mg/L except Hg)	0.038	0.026	3.55	0.093 ug	0.58	0.35	0.93	0.05	10.67	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	lyses: Results (except	soluble salts) o	n dry weight basis	Sample Receipt
rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

	mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As	4.46	0	41		75	
Cd	3.07	0	39_	第 列列	85	
Cu	412.8	0			4300	
Pb	108.6	0	300		840	
Hg	1.76	0	17		57	
Mo	67.0	0	75			
Ni	40.9	0	420			
Se	6.15	0	100			
Zn	1240.3	0	2800		7500	
PCB ¹	< .34	0			8.6	





PA DEP Lab ID # 14-00588

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Corpusion Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E15890

Date Received:

June 10, 2013

Date Sampled:

6/4/13

Report Date: Sample type: 6/24/13

County:

Composite

Berks

Customer Sample ID:

13-5010 Belt Press Sludge

R	ES	UI	LT	5

pН	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.1 C	— _% —					— % (dry	weight bas	sis) —				
8.0	19.18	59.82	4.89	3.94	0.95	1.77	0.13	0.89	7.24	0.08	1.06	0.76
												.
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
Mn	As	Cd	Cr	Cu		Hg g (dry weigh		Ni	Se	Zn	PCB ¹	

NR-Not Requested

One dry ton of this material is equivalent to

1250 gallons of wet material or 5.2 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N 4.89 1.02

dry tons of this biosolid will supply 100 lbs of total N.

 P_2O_5 4.05

2.82

dry tons of this biosolid will supply 100 lbs of P

K,O 0.16

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	6/14/2013	9:07:47
As	3050B + 6010	Brooks	6/14/2013	9:07:47
Se	3050B + 6010	Brooks	6/14/2013	9:07:47
Hg	7473	Brooks	6/13/2013	10:17:43 AM
PCB ¹	8082			

Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.049	2.049	2.049	0.288	2.049	2.049	2.049	2.049	2.049	
Analyte conc. in sample/ digest (mg/L except Hg)	0.042	0.025	3.40	0.063 ug	0.65	0.29	0.87	0.04	10.86	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	lyses: Results (except	soluble salts) o	n dry weight basis	Sample Receipt
.vitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

	mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As	5.33	0	41	increased monitoring	75-	Exceeds centing times
Cd	3.18	0	- 39-		85	
Cu	432.1	0	1500		4300	
Pb	110.9	0-	300		840	
Hg	1.14	0	17		57	
Мо	82.2	0	75			
Ni	37.5	0	420			
Se	5.23		100			
Zn	1381.2	0	2800		7500	
PCB ¹	< .35	0			8.6	



Phone: 814-863-0841 Fax: 814-863-4540 Web: www.aasl.psu.edu PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E15935

Date Received: Date Sampled:

July 10, 2013

Report Date:

7/2/13 8/20/13

Sample type:

Composite

County: Customer Sample ID:

Berks 13-5962

RESULTS

pН	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.5 C	- % -					— % (dry	weight bas	is)				
8.2	19.61	61.33	4.79	3.88	0.91	1.82	0.18	0.69	5.99	0.08	1.41	1.00
		C 1			D1	**		N7 1		~	n.cm1	Reactive
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	CN
Mn 	AS			Cu		Hg g (dry weigh		Ni	Se	Zn	PCB.	

NR-Not Requested

One dry ton of this material is equivalent to

1223 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

4.16

0.22

otal N 4.79 1.04

dry tons of this biosolid will supply 100 lbs of total N.

P2O, K,0

2.75

dry tons of this biosolid will supply 100 lbs of P

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	7/19/2013	9:00:02
As	3050B + 6010	Brooks	7/19/2013	9:00:02
Se	3050B + 6010	Brooks	7/19/2013	9:00:02
Hg	7473	Rishel	8/19/2013	1:02:24 PM
PCB ¹	8082			

Subcontracted to Lanway	Laboratorn	CS. IIIC. (ID 7	-00002)						Company of the second	
RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS										
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.309	2.309	2.309	0.340	2.309	2.309	2.309	2.309	2.309	
Analyte conc. in sample/ digest (mg/L except Hg)	0.047	0.029	4.52	0.113 ug	0.74	0.39	0.98	0.06	13.97	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

		Optional Ana	lyses: Results (except	soluble salts) of	n dry weight basis	Sample Receipt	
	:ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature	
1							

	mg/kg		Pollutant Limit		Ceiling Limit	
	mg/kg	Acceptable		Acceptable- increased monitoring		Exceeds ceiling limits
As	5.23	0	415		75-	
Cd	3.16	0-	39.		85	
Cu	498.9	0	1500		4300	
Pb	108.2	0	300		840	
Hg	1.69	0	17		57	
Мо	81.5	0	75:			
Ni	43.5	0	420			
Se	6.4		100			
Zn	1541.9	0	2800		7500	
PCB ¹	< .34	0	4		8.6	





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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601 RECEIVED

SEP 13 2013

DEPT. OF PUBLIC WORKS

Lab Sample ID:

E15988

Date Received:

August 19, 2013

Date Sampled: Report Date: 8/13/13 9/4/13

Report Date: Sample type: 9/4/13 Composite

County:

Berks

Customer Sample ID: 13-7357

			2.5
\mathbf{R}	ESU	JL	TS

pН	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 23.2 C	— _% —					— % (dr	y weight ba	sis)				
7.8	21.29	61.67	4.86	4.15	0.71	1.78	0.11	0.42	6.18	0.07	1.48	0.88
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
					– mg/kį	g (dry weig	ht basis)					
563.3	4.72	3.61	182.5	439.4	119.6	1.32	63.5	112.8	5.42	1544.3	< .31	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1127 gallons of wet material or 4.7 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N 4.86

1.03 dry tons of this biosolid will supply 100 lbs of total N.

P₂O₅ 4.08

2.80

dry tons of this biosolid will supply 100 lbs of P

K₂O 0.13

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

					_
Analyte	EPA SW-846 Method	Analyst	Date	Time	
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	8/27/2013	8:54:57	
As	3050B + 6010	Stecko	8/27/2013	8:54:57	
Se	3050B + 6010	Stecko	8/27/2013	8:54:57	
Hg	7473	Rishel	8/26/2013	11:36:03 AM	
PCB ^t	8082				

Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Мо	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.553	2.553	2.553	0.316	2.553	2.553	2.553	2.553	2.553	
Analyte conc. in sample/ digest (mg/L except Hg)	0.051	0.039	4.78	0.089 ug	0.69	1.23	1.30	0.06	16.78	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	Sample Receipt			
.rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

mg/kg	Pollutant Limit ceptable	Acceptable- increased monitoring	Ceiling Limit Exceeds ceiling limits	
As 4.72	41		75	ter Styden
Cd 3.61	39. 		855	
Cu 439.4			4300	
Pb 119.6			840	
Hg 1.32				
Mo 63.5	75			
Ni 112.8	-420-			
Se 5.42		n na managan kana na mangan sa mangan	an in profession, in the first of the analysis of the state of the sta	
Zn 1544.3	2800	경우 : 중하는 가장을 모고 이 화되었다.	7500	
PCB ¹ < 31	4		8.6	

Agricultural Analytical Services Laboratory The Pennsylvania State University University Park, PA 16802

Phone: 814-863-0841 Fax: 814-863-4540 Web: www.aasl.psu.edu PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID:

E16025 Date Received:

Date Sampled:

September 9, 2013 9/4/13

9/27/13 Report Date: Composite Sample type:

County: **Customer Sample ID:**

Berks 13-8159

RESULTS

pН	Solids	Volatile	Tot-N	Org-N	NH_4N	I P	K	Mg	Ca	Na	Fe	Al
@ 23.2 C	%					— %(dr	y weight ba	sis)				
8.2	20.49	59.40	4.95	4.13	0.82	1.86	0.08	0.42	7.16	0.08	1.38	0.85
Mn	As	Cd	Cr	Cu	Pb	Hg	Мо	Ni	Se	Zn	PCB ¹	Reactive CN
					mg/k	g (dry weigi	ht basis)				: :	
464.3	3.2	3.93	155.0	496.5	118.9	2.37	63.1	86.4	4.3	1376.3	< .61	< 1

NR-Not Requested

One dry ton of this material is equivalent to

2.69

1171 gallons of wet material or 4.9 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

otal N 4.95 1.01 dry tons of this biosolid will supply 100 lbs of total N.

dry tons of this biosolid will supply 100 lbs of P

P2O5 4.26 K,O

0.10

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS										
Analyte	EPA SW-846 Method	Analyst	Date	Time						
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	9/13/2013	9:21:17						
As	3050B + 6010	Stecko	9/13/2013	9:21:17						
Se	3050B + 6010	Stecko	9/13/2013	9:21:17						
Hg	7473	Brooks	9/26/2013	11:02:37 AM						
PCB ^t	8082									

RAW LABORATORY	BENCH DATA	FOR EPA 503	POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.806	1.806	1.806	0.325	1.806	1.806	1.806	1.806	1.806
Analyte conc. in sample/ digest (mg/L except Hg)	0.024	0.029	3.67	0.158 ug	0.47	0.64	0.88	0.03	10.18
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

	Optional Ana	Sample Receipt			
rate-N ,1g/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As 3.2 0	。 对影响的第	41			The state of the s
Cd 3.93		39		85	
Cu 496.5		1500		4300	
Pb 118.9				840	
Hg 2.37		17		57	
Mo 63.1		75			
Ni 86.4 0		420			
Se 4.3		100			
Zn 1376.3		2800		7500	
PCB ¹ < .61		-1-4		8.6	



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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

DEPT. OF PUBLIC WORKS

Lab Sample ID:

E16068

Date Received:

October 3, 2013

Date Sampled:

10/2/13

Report Date:

10/22/13 Composite

Sample type: County:

13-9148 Biosolids **Customer Sample ID:**

Berks

RESULTS

AND DESCRIPTION OF THE PARTY OF						كالمناز المستكل الشارة والمساولات	Annual Control of the Party of	AND DESCRIPTION OF THE PERSON	AND DESCRIPTION OF THE PERSON NAMED IN			
pН			Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.3 C	- % -					% (dry	y weight ba	sis)				
8.1	20.59	64.67	5.02	4.16	0.86	1.91	0.09	0.40	6.08	0.09	1.21	1.02
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
					– mg/kg	g (dry weigl	nt basis)					
418.6	3.41	3.76	127.6	453.4	106.6	1.41	72.2	65.9	4.61	1699.0	< .32	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1165 gallons of wet material or 4.9 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

5.02 al N

(mg/L except Hg)

1.00 dry tons of this biosolid will supply 100 lbs of total N.

r,0, 4.38

2.61 dry tons of this biosolid will supply 100 lbs of P

K,O 0.11

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd.Cu.Mo,Pb,Ni,Zn	3050B + 6010	Stecko	10/16/2013	9:21:50
As	3050B + 6010	Stecko	10/16/2013	9:21:50
Se	3050B + 6010	Stecko	10/16/2013	9:21:50
Hg	7473	Brooks	10/21/2013	11:49:05 AM
PCB	8082			

RAW LABORATORY E	RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS									
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.862	2.862	2.862	0.218	2.862	2.862	2.862	2.862	2.862	
Analyte conc. in sample/ digest (mg/L except Hg)	0.040	-0.044	5.34	0.063 ug	0.85	0.78	1.26	0.05	20.02	
Method limit	0.015	0.005	0.015	0.0010 ng	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	Sample Receipt			
Nimite-N , kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature



	mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As	3.41		41-2		75	
Cd	3.76		39		85	
Cu	453.4	0			4300	7
Pb	106.6	0	300		- 840	
Hg	1.41 132 g	0	17			
Мо	72.2	0				
Ni	65.9	0	420			
Se	4.61	0				
Zn	1699.0	0	2800		7500	27.50
PCB	< .32	0	4		- 8.6	



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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601



DEPT . OF PUBLIC WORKS

Lab Sample ID:

E16128

Date Received:

November 7, 2013

Date Sampled: Report Date:

11/5/13 11/22/13

Sample type:

Composite

County:

Berks

Customer Sample ID: 13-10313

DECLI	TO
RESUI	

pН	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22 C	- % -					— % (dr	y weight ba	sis) —				
7.7	18.69	65.09	5.26	4.31	0.95	1.79	0.12	0.37	10.18	0.12	0.99	0.77
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
			10		mg/k	g (dry weig	ht basis)			·		
308.7	3.29	3.31	100.5	432.7	94.8	1.33	56.3	42.9	4.37	1271.0	< .36	< 1
NR-Not	Requested	One di	ry ton of this	s material is	equivalent	to 1283	gallons of	f wet materi	al or 5.4	tons of wet r	naterial	

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

al N 5.26

0.95 dry tons of this biosolid will supply 100 lbs of total N.

P₂O₅ 4.10

2.79 dry tons of this biosolid will supply 100 lbs of P

K₂O 0.14

A BY A T MICHO	TAILODA	CATTON DOD	TIDA FO	2 DOT 1 11	TABITO
ANALYSIS	INFURN	1ATION FOR	CEPA 50	3 POLA II	ANIS

Analyte	EPA SW-846 Method	Analyst	Date	Time	
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6 010	Brooks	11/15/2013	9:27:31	
As	3050B + 6010	Brooks	11/15/2013	9:27:31	
Se	3050B + 6010	Brooks	11/15/2013	9:27:31	
Hg	7473	Brooks	11/15/2013	?	
PCB ¹	8082				
Subcontracted to Fairway Labora	tories Inc (ID 7-00062)				

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.567	2.567	2.567	0.227	2.567	2.567	2.567	2.567	2.567	
Analyte conc. in sample/ digest (mg/L except Hg)	0.032	0.032	4.15	0.056 ug	0.54	0.41	0.91	0.04	12.19	
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Analyses: Results (except soluble salts) on dry weight basis Sample Receipt										
ate-N	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature						

mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As 3.29 0-	Acceptable	41	increased monitoring	75	Exceeds certaing turns
Cd 3.31	Alema i	39		=-85-=	
Cu 432.7		1500		- 4300	
Pb 94.8	The State of the S	300		- 840	
Hg 1.33		17		- 57	
Mo 56.3		75			
Ni 42.9		420			
Se 4.37	ng congress of the	100			
Zn 1271.0		2800		-7500	
PCB ¹ < .36		4		8.6	



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Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601

Lab Sample ID: Date Received:

E16195

December 10, 2013

Date Sampled:

12/3/13

Report Date: Sample type: 1/2/14 Composite

County:

Berks

Customer Sample ID:

13-11217

RESU	\mathbf{L}	ΓS

pН	Solids	Volatile	Tot-N	Org-N	NH ₄	N P	K	Mg	Ca	Na	Fe	Al
@ 21.6 C	2 - % -					— % (dr	y weight ba	sis) —				
7.9	19.09	66.60	5.42	4.49	0.93	1.97	0.11	0.41	5.54	0.09	1.06	0.89
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
	mg/kg (dry weight basis)											
319.3	2.92	3.42	117.8	485.1	111.8	2.81	54.7	45.1	4.39	1360.4	< .35	< 1

NR-Not Requested

One dry ton of this material is equivalent to

1256 gallons of wet material or 5.2 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

otal N 5.42 0.92

dry tons of this biosolid will supply 100 lbs of total N.

 P_2O_5 4.51

2.54

dry tons of this biosolid will supply 100 lbs of P

K,O 0.14

ANALYSIS INFORMAT	(OI	N FOR EPA	503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	12/18/2013	13:19:15
As	3050B + 6010	Brooks	12/18/2013	13:19:15
Se	3050B + 6010	Brooks	12/18/2013	13:19:15
Hg	7473	Brooks	12/16/2013	1:59:06 PM
PCB ¹	8082			

RAW LABORATORY	BENCH DATA	FOR EPA 50	3 POLLUTANTS
ICA II DADOICA I OK I	DENCH DATA	TOK ELA JU	JIOLLOIANIS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn	
Wet Wt. aliquot (g)	2.036	2.036	2.036	0.389	2.036	2.036	2.036	2.036	2.036	
Analyte conc. in sample/ digest (mg/L except Hg)	0.023	0.027	3.77	0.209 ug	0.42	0.35	0.87	0.03	10.57	
Method limit	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050	

	Optional Ana	Sample Receipt			
trate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

mg/kg	Acceptable	Pollutant Limit	Acceptable- increased monitoring	Ceiling Limit	Exceeds ceiling limits
As 2.92	0	2-200341-42-1- (Rosessa) (RA) 		75	The second secon
Cd 3.42	0-1917	39		85	Vintarias Significa
Cu 485.1	0			4300	
Pb 111.8	0	300	Pagawa Asart Tagawa Asart	840	
Hg 2.81	0-12-12-	\$ 17	Patrice of the city.	-57	
Mo 54.7	0	75			
Ni 45.1	0	420			
Se 4.39	0				
Zn 1360.4	0	2800		7500	
PCB ¹ < .35	0	4		8.6	

Additional Testing for bis(2-Ethylhexyl)phthalate on Plant Influent, Effluent and Biosolids

2013 Influent Testing for TKN, Total Phosphorus, o-phosphate

Additional testing for Total Dissolved Solids on Plant Influent and Effluent

DEP letter and NPDES amendment for mercury limit

	Bis(2-Ethylhexyl)phthalate		
	Influent	Effluent	Biosolids
_	μg/L		ug/Kg
1/3/2013	<5	6	18.7
1/15/2013	<5	<5	
1/29/2013	<5	8	
2/6/2013	<5	<5	
2/19/2013	<5	<5	
3/5/2013	<5	<5	
3/12/2013			<22.9
3/19/2013	6.8	<5	
4/2/2013	15	5	
4/16/2013	23	11	
4/24/2013	<5	5.5	
5/7/2013	<5	<5	
5/14/2013		}	7.36
5/21/2013	<5	<5	
6/4/2013	<5	<5	
6/18/2013	5.2	5.4	
7/2/2013	<5	5	<12.2
7/16/2013	6.9	<5	
7/23/2013	<5	<5	
8/6/2013	30	<5	
8/20/2013	29	<5	
9/3/2013	13	<5	
9/4/2013		_	9.7
9/17/2013	12	<5	
10/2/2013		_	<25
10/21/2013	5	<5	
8/13			4.5
		i .	

	Influent			
Γ	TKN	Total P	Ortho P	
DATE	mg/L	mg/L	mg/L	
1/8/2013	43.9	6.4		
1/9/2013			5.07	
4/23/2013	54.5	6.9		
4/24/2013			3.80	
7/22/2013	19.6	6.4		
7/23/2013			4.86	
10/22/2013	47.8	7.7		
10/23/2013			5.90	
}				

** T. <

Total Dissolved Solids

I Otal Dissolve	u Solius	
Date	Influent	Effluent
	mg/L	mg/L
Sunday, January 06, 2013	610	628
Sunday, January 13, 2013	608	582
Sunday, January 20, 2013	498	600
· · · · · · · · · · · · · · · · · · ·		710
Saturday, January 26, 2013	792	
Monday, February 04, 2013	720	582
Monday, February 11, 2013	822	642
Thursday, February 14, 2013	770	728
Monday, February 25, 2013	722	678
Monday, March 04, 2013	758	688
Monday, March 11, 2013	772	694
Friday, March 15, 2013	730	646
Friday, March 22, 2013	622	570
Saturday, March 30, 2013	610	610
Friday, April 05, 2013	714	728
Friday, April 12, 2013	698	656
Sunday, April 21, 2013	732	638
Saturday, April 27, 2013	682	698
Sunday, May 05, 2013	826	922
Saturday, May 11, 2013	664	640
· · ·	720	742
Saturday, May 18, 2013		
Sunday, May 26, 2013	640	704 706
Thursday, May 30, 2013	758 70.4	736
Saturday, June 08, 2013	794	632
Thursday, June 13, 2013	578	618
Monday, June 24, 2013	742	732
Friday, June 28, 2013	696	600
Friday, July 05, 2013	642	672
Saturday, July 13, 2013	628	572
Saturday, August 03, 2013	674	682
Friday, August 09, 2013	776	644
Friday, August 16, 2013	778	708
Saturday, August 24, 2013	692	736
Sunday, September 01, 2013	866	940
Sunday, September 08, 2013	1050	892
Friday, September 13, 2013	940	802
Saturday, September 21, 2013	654	782
Saturday, September 28, 2013	728	678
Friday, October 04, 2013	820	832
Saturday, October 12, 2013	758	658
Monday, October 21, 2013	728	716
Sunday, October 27, 2013	694	722
Saturday, November 02, 2013	696	716
Thursday, November 07, 2013	634	652
Friday, November 15, 2013	686	694
Monday, November 25, 2013	762	744
•	638	626
Sunday, December 01, 2013		526
Saturday, December 07, 2013	672	
Sunday, December 15, 2013	1128	748
Sunday, December 22, 2013	792	812
Sunday, December 29, 2013	650	566